

AMPHIPOD NEWSLETTER

19



Produced at the Australian Museum, 6 College Street, Sydney NSW 2000
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Editors

Jim Lowry (Sydney)
Wim Vader (Tromsø)

Regional Editors

Canada	Diana Laubitz (Ottawa)
USA east	John Holsinger (Norfolk)
USA west	vacant - volunteers most welcome
C. & S. America	vacant - volunteers most welcome
Scandinavia, Baltic	Wim Vader (Tromsø) - temporarily
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Japan	Ichiro Takeuchi (Akahama)
Australia, New Zealand	Jim Lowry (Sydney)

Hiroshi Morino and Jason Weeks were unable to continue as regional editors - both have done a very good job.

Wim has been in Sydney for a year (1993), but will be back in Tromsø from January 1994.

ABOUT THE COVER

This issue is dedicated to the memory of Jerry Barnard. The cover shows examples of genera and species named in his honour by appreciative colleagues. Clockwise from the bottom: *Eucallisoma barnardi* Lowry & Stoddart, *Jerbarnia mecochira* Croker, *Pseudomegamphopus barnardi* Myers, *Echiniphimedia barnardi* Coleman & Andres, *Dulichlopsis barnardi* Laubitz.

SUBSCRIPTIONS

Enough subscriptions have come in to print AN 19, but the financial situation is still unsatisfactory and Wim has not got his money back. We therefore urge the regional editors to once more collect subscriptions; especially disappointing is the low payment rate of US-subscribers.

WHAT YOU THINK OF THE AMPHIPOD NEWSLETTER

More than 100 subscribers filled out and sent in the questionnaire in AN 17, and most seem to be generally content with the Amphipod Newsletter.

Many of you want more "News from Colleagues". The editors concur, but this is one type of copy that they can't generate themselves! So please write us about your plans, problems, triumphs and frustrations.

Other suggestions were to add authors' addresses to the bibliography, something Wim does not feel it possible to provide as long as he compiles this bibliography in the old-fashioned way. Also, of course, very many addresses are in the list in this issue.

The idea to supplement the address list with fax and E-mail numbers is a good one and maybe the regional editors could coordinate this at the same time as collecting the subscriptions.

In AN 20, we'll have a debate on how "best to describe amphipods" (descriptions and/or illustrations) after an initiative of Oliver Coleman. Diana Laubitz has proposed to ask some young amphipod workers from different countries and disciplines to tell about their dreams and problems, and that seems to be a very attractive idea. Once more, the regional editors are asked to help find likely prospects.

NEXT AMPHIPOD CONFERENCE

During the Jerry Barnard Memorial in Washington in March 1992 various suggestions were bandied about as to where and when the next amphipod meeting is to be held. Many exotic and amphipodologically tempting venues, such as Chile and Yucatan, were proposed, but nothing seems to have come of them.

On the other hand, there is a concrete offer by Prof. Krzysztof Jazdzewski to organize the next amphipod meeting in autumn 1994 in Lodz, Poland. Some of you will have fond memories of earlier visits to Poland, either in 1980 when the amphipod meeting was first planned, or from 1981 when it actually took place, and Krzysztof assured us that it now will be considerably easier to organize a meeting than in those troubled times.

He needs, however, to decide the issue at the latest ultimo October this year, as such meetings need a lot of preparation and fund applications. We urge therefore all colleagues who are interested in participating in the next amphipod meeting, to write to Krzysztof directly, at the latest by 15 October 1993, and let him know what they think of his suggestion of holding the meeting once more in Poland, and whether they have plans to participate.

His address is:

Prof. Krzysztof Jazdzewski
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A BRONZE AMPHIPOD

William H. Turner is an American sculpter specializing in animal sculptures. Wim and Jim have seen examples of his work and it is of the highest quality. He is willing to sculpt and cast in bronze an amphipod, maybe *Eurythenes gryllus*. The sculpture would be about 10 cm long. The amphipod would appear to be swimming past a trap or some benthic object. Turner would cast 100 copies. Each one would cost about US\$300 provided that at least 30 people order. Expressions of interest to Jim Lowry by 31 October 1993.

J.L. BARNARD & G.S. KARAMAN 1991. 'THE FAMILIES AND GENERA OF MARINE GAMMARIDEAN AMPHIPODA (EXCEPT MARINE GAMMAROIDS).' RECORDS OF THE AUSTRALIAN MUSEUM SUPPLEMENT 13, 2 Vols, 866 pp.

by

Wim Vader

Review

This monumental monograph is Jerry Barnard's legacy to his colleagues (for with all due respect for Gordon Karaman's important contribution in the early stages, this is very much Jerry's book, in both style and contents). Nothing can of course replace Jerry Barnard the man, and he will be sadly missed as expert, mentor, generous helper and friend for many years to come, but we are very fortunate to have this state-of-the-art overview of the taxonomy and relationships of the gammaridean Amphipoda, as Jerry Barnard saw them. Thanks to the generous assistance of Jim Lowry and his amphipod and publishing team at the Australian Museum, the two - volume monograph has got a very clear design and lay-out, and before his untimely death Jerry had the satisfaction to know that the handbook was in the press.

While the reviewer almost automatically uses the words 'this monumental monograph', the authors themselves with characteristic modesty write in the introduction: 'The present compilation remains at best a stopgap!' (Jerry Barnard was also heard to grumble that 'this book' kept him away from real science for years.) Both viewpoints are right! As the authors themselves were the first to acknowledge, the taxonomy and phylogeny of the gammaridean amphipods, especially at the suprageneric level, are very much in a state of flux. Vast amounts of data are being collected and processed annually, new characters are evaluated, and much more stringent and objective taxonomic methods are being taken into use. Further more, the handbook is for a large part, and necessarily, based upon study of the literature, not the actual type-specimens (what Barnard and Karaman themselves have dubbed 'armchair-revisions'), and in some cases faulty or incomplete observations by earlier authors have therefore found their way into this book. The data on geographic distribution, unchecked by regional workers, suffer especially in this respect. So in a way this handbook, if surely not a stopgap, will probably and hopefully become out-of-date in some respects before long.

But on the other hand the two volumes definitely do constitute a monumental monograph! They represent a tour de force that only a specialist with vast and varied experience and both the wide overview and detailed insight of the world's entire amphipod fauna, such as Jerry Barnard uniquely had, could hope to embark on with any chance of success. Moreover, only someone with his tenacity and altruistic work-ethos could bring the task to fruition.

Compared with Barnard's earlier 1969-handbook, itself deservedly a classic in amphipod taxonomy, this is definitely the deluxe model! Not only have a further 25 years of active amphipod studies and not least the authors' ever growing insights been incorporated, but the present handbook also contains lists of all described species (with references to original and later descriptions) and their geographic distribution. The generic diagnoses have been greatly expanded, and most useful sections have been added on sexual and intrageneric variations, and on differences from related genera. There are many keys to families and genera (unfortunately not all run smoothly because of minor inconsistencies or misprints).

The handbook specifically excludes the marine gammaroids, and for many prominent marine genera such as *Gammarus*, *Melita*, *Maera*, or *Bathyporeia* the reader is referred to the earlier monographs of Barnard & Barnard (1983). This was no doubt unavoidable, but still rather much a pity.

There is, as is the case in most taxonomic monographs, little here about the biology of the amphipods and what there is, e.g. in the introductory chapters, is often clearly deductions from the morphology of limbs and mouthparts rather than the results of actual field or aquarium observations or even in-depth coverage of the relevant literature. Data on symbiotic associations, my own hobby-horse, for example, are presented very unevenly and somewhat haphazardly. These comments are maybe somewhat unfair, as the handbook clearly never aimed at covering biological data at any depth. Instead it was published 'to aid in the identification of gammaridean genera' and 'to present chapters on morphology, evolutionary trends, geographic distribution and prospects that are the direct outgrowth of our studies'. In these aims the handbook succeeds magnificently.

How incredibly important and almost indispensable a handbook such as this is for the practising taxonomist in large parts of the world, has first been brought home to me by my present stay in Australia. In Norway - the country of G.O. Sars - regional coverage is so good that it almost seems excessive to use 'a handbook of the entire world' in your daily work. But in Australia the situation is still very different: every amphipod species that I find among my hermit-crabs is strange and unknown to me, and the only sensible way to proceed is to use 'the green Barnard & Karaman'. With the help of this book I can identify the right genera (or find that no existing genus fits), and then go on and see which species have been described from the general area, and where I can find description and illustrations of them. There also are large numbers of very clear detailed illustrations to further assist the identification process.

For many amphipod workers the appearance of this handbook therefore signifies the start of a new era, and Jerry Barnard could not have given us a better legacy than this.

Taxonomic changes in Barnard & Karaman 1991

These changes have been incorporated in the indexes in AN 18 and 19. They are listed here by family, without page references. The many changes that had already been published elsewhere are omitted, where noted, but many will have been overlooked.

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|------------------|--|
| Ampeliscidae: | <i>Haploops securiger</i> (transferred) to <i>Byblis</i> (The word transferred will be omitted). |
| Amphilochoidea: | <i>Gitanogeiton tropica</i> to <i>Amphilocheus</i> . |
| Ampithoidae: | <i>Plumithoe</i> n. gen. for <i>Ampithoe plumicornis</i> (type) and <i>A. hirsuta</i> .
<i>Melanesius</i> reduced to subgeneric rank sub <i>Exampithoe</i> .
<i>Ampithoe brasiliensis</i> to <i>Cymadusa</i> . <i>Paradusa pilipes</i> to <i>Cymadusa</i> . |
| Bateidae: | <i>Carinobatea</i> junior synonym of <i>Batea</i> . |
| ? Condukiidae: | <i>Otagia</i> n. gen. (incertae sedis) for the insufficiently well known <i>Platyischnopus neozelanicus</i> . |
| Corophioidea: | <i>Arctolembos</i> raised to generic status with type <i>Lembos arcticus</i> ; <i>Autonoe</i> Bruzelius revived, type <i>Gammarus longipes</i> , 11 further spp.; <i>Rudilemboides</i> Barnard revived.
<i>Neomicrodeutopus</i> and <i>Bigrandierella</i> junior synonyms of <i>Grandierella</i> .
<i>Gammaropsis alaskensis</i> to <i>Cheirimeidia</i> , <i>G. lina</i> to <i>Audulla</i> , <i>Lemboides crenatipalma</i> to <i>Aorchoides</i> , <i>Lembos chelatus</i> to <i>Varohios</i> , <i>L. leptocheirus</i> to <i>Xenocheira</i> , <i>L. longipalpus</i> to <i>Columbaora</i> , <i>Leptocheirus aberrans</i> to <i>Goesia</i> , <i>Microdeutopus kraemmeri</i> to <i>Globosolembos</i> , <i>M. tridens</i> to <i>Lembos</i> , <i>Photis digitata</i> and <i>Ph. distinguenda</i> to <i>Dodophotis</i> , <i>Ph. geniculata</i> to <i>Cheiriphotis</i> .
<i>Lepechinellopsis inaequicaudata</i> to <i>Melita</i> . |
| Dexaminidae: | <i>Relictomoera</i> n. gen. for <i>Paramoera relicta</i> (type) and <i>P. tsushimana</i> . <i>Sternomoera</i> n. gen. for <i>Paramoera yezoensis</i> (type), <i>P. hayamanensis</i> and <i>P. japonica</i> . |
| Eusiridae: | <i>Rozinante</i> junior syn. of <i>Apherusa</i> ; <i>Harpinioidella</i> junior syn. of <i>Harpinioides</i> ; <i>Pontogeneiella</i> junior syn. of <i>Prostebbingia</i> ; <i>Atylodes</i> and <i>Dolobrotus</i> junior syn. of <i>Schraderia</i> .
<i>Apherusa translucens</i> to <i>Whangarusa</i> , <i>Halirages bungei</i> to <i>Paracalliopiella</i> , <i>H. batei</i> , <i>H. huxleyanus</i> and <i>H. regis</i> all to <i>Austroregia</i> , <i>Pontogeneia barnardi</i> to <i>Abdia</i> , <i>Prostebbingia maneroo</i> to <i>Manerogeneia</i> . |
| Exoedicerotidae: | <i>Warreyus</i> junior syn. of <i>Exoediceroides</i> . |
| Iphimediidae: | <i>Paracanthonotozoma</i> junior syn. of <i>Acanthonotozomella</i> ; <i>Pseudepimeria</i> and <i>Subepimeria</i> junior syn. of <i>Epimeria</i> ; <i>Cypsiphimedia</i> junior syn. of <i>Iphimedia</i> ; <i>Maoriphimedia</i> junior syn. of <i>Labriphimedia</i> .
<i>Iphimedia joubini</i> to <i>Stegopanoploea</i> , <i>Iphimediella discoveryi</i> to <i>Gnathiphimedia</i> |

- macrops*.
- Leucothoidae: *Leucothoella* (valid subgenus) and *Leucothopsis* junior syn. of *Leucothoe*.
- Liljeborgiidae: *Liljeborgiella* junior syn. of *Liljeborgia*; *Ronconoides* junior syn. of *Listriella*.
Liljeborgia epistomata to *Isipingus*.
- Lysianassidae: *Bonassa* n. gen. for *Lysianassa bonairensis*. *Caeconyx* n. gen. for *Tmetonyx caeculus*.
Concarnes n. gen. for *Socarnes concavus*. *Coximodon* n. gen. for *Cheirimodon latimanus* (type) and *C. pectinipalma*. *Dartenassa* n. gen. for *Lysianassa dartevellae*.
Dissiminassa n. gen. for *Aruga dissimilis*. *Falcanassa* n. gen. for *Lysianassa falcata*.
Gronella n. gen. for *Anonyx groenlandicus*. *Lysianassina* Costa revived for *Lysianax longicornis*.
Macronassa n. gen. for *Aruga macromerus* (type) and *Lysianassa pariter*.
Martensia n. gen. for *Lysianassa martensi*. *Septicarnes* n. gen. for *Socarnes septimus*.
Tetronychia junior syn. of *Hirondellea*.
Ambasiopsis fomes to *Cedrosella*, *Anonyx kurilicus* to *Psammonyx*, *Aruga subantarctica* to *Lysianopsis*, *Hippomedon brevicaudatus* to *Elimodon*, *H. whereo*, possibly also *H. manene* and *H. matikuku*, to *Paracentromedon*, *Nannonyx integricauda* to *Kakanui*, *Fresnillo fimbriatus* to *Ocosingo borlus*, *Orchomene abyssalis* to *Uristes*, *O. groenlandicus* to *Gronella*, *O. morbihanensis* to *Socarnes*, *O. reducta* to *Falklandia*, *O. iakoradia* to *Adeliella*, *Pachychelium mediterraneum* to *Prachynella*, *P. oculatum* to *Ekelofia*, *Pseudokoroga rima* to *Rimakoroga*, *Schisturella galathea* to *Galathella*, *S. parachelata* to *Aristiopsis*, *Socarnes allecto*, *S. dissimulantia*, *S. filicornis* and *S. obesus* all to *Socarnopsis*, *S. concavus* to *Concarnes*, *S. illudens* and *S. unidentatus* to *Socarnoides*, *S. septimus* to *Septicarnes*, *Tryphosites capadarei* to *Parschisturella carinata*, *Uristes induratus* to *Procyphocaris*, *U. lepidus* to *Lepiduristes*, *U. martensi* to *Martensia*, *U. murrayi* to *Tryphosella*, and *Valettiopsis anacanthus* to *Valettiella*.
- Oedicerotidae: *Cornudilla* n. gen. for *Westwoodilla cornuta*.
Gulbarensia larseni to *Oediceroides lahillei*, *Oediceroides forensia* to *Lopiceros*, *O. brevirostris* and *O. cystifera* to *Paraperioculodes*, *O. pirloti* to *Paroediceros*, *O. sinuata* to *Paroediceroides*, *Oediceropsis morosa* and *O. trepadora* to *Oediceroides*, and *O. sinuata* to *Paroediceroides*.
- Paracalliopiidae: *Paracalliope fernandoi* Wignarajah, 1951 is a talitrid.
- Pardaliscidae: *Eperopeus* Mills is consistently misspelled *Epereopsis*.
- Phoxocephalidae: *Ringaringa* n. gen. for *Metaphoxus littoralis*.
Metaphoxus fultoni to *Parametaphoxus*, *M. littoralis* to *Ringaringa*, *Parharpinia fuegiensis* to *Fuegiphoxus*.
- Platyischnopidae: *Platyischnopus neozelanicus* to *Otago*.
- Pleustidae: *Pleustoides* junior syn. of *Pleusymtes*. *Parapleustes barnardi* and *P. honomu* to *Tepidopleustes*.
- Podoceridae: *Styloxenodice* junior syn. of *Parunciola*.
- Stegocephalidae: *Andaniotes simplex* to *Stegosoladidas*, *Stegocephaloides katalia* and *S. vanhoffeni* to *Stegocephalopsis*, *Stegocephalopsis wagini* to *Stegocephaloides*, *Stegocephalus latus* to *Stegocephalopsis*.
- Stenothoidae: *Hardametopa* n. gen. for *Metopa nasuta* (type) and *M. carinata*.
Metopoides aurora to *Aurometopa*, *M. aequalis*, *M. compacta*, *M. crassicornis* and *M. parallelocheir* all to *Torometopa*, *Proboloides antarcticus*, *P. carinatus*, *P. crenatipalmatus*, *P. dentimanus*, *P. palmatus*, *P. perlatus*, *P. porcellanus* and *P. stephenseni* also all to *Torometopa*.
- Stilipedidae: *Parastyra* junior syn. of *Astyra*.
Bathypanoploea australis to *Alexandrella*.
- Synopiidae: *Pseudotiron brevidactylus* to *Metatiron*.

Errata

Only those that can cause difficulties in identification have been mentioned here. I am very grateful to Anna Murray and Roger Springthorpe of the Australian Museum for bringing the bulk of the errata to my attention.

- p. 64 Couplet 3 should read: - Coxa 1 small or absent, much smaller than coxa 2 (less than half surface area of coxa 2) and/or mostly hidden by following coxa. Some of following coxae longer than wide. (Occasionally gnathopod 1 absent or vestigial). Section E.
- Coxa 1 usually subequal to coxa 2 or never hidden by following coxae (Occasionally coxa 1 partly hidden, but all following coxae wider than long (Gnathopod 1 always fully developed)).

- p. 64 Couplet 7b refers to 11, not 1.
 p. 68 Couplet 38a refers to Fig. 21
 p. 69 Couplet 46b refers to 47, not 31
 p. 70 Couplet 3b reads antenna 1 4, not antenna 14
 p. 74 Couplet 3a Article 4 of antenna 2 strongly expanded.
 p. 113 *Anamixis* Figs. 27, 83, 84, not 85
 p. 149 Couplet 8b refers to 14, not 15
 p. 368 *Allorchestes plumicornis* is G
 p. 395 Geographical distribution of *Iphimedia discreta* is area 781, not 681.
 p. 576 The genus name *Eperopeus* Mills, 1967 is consistently misspelled *Epereopus*
 p. 585 Fig. 105 I = *Pereionotus* (= *Palinnotus*)
 p. 586 Fig. 106 Taxon- lettering missing on plate. Upper row from left: *Heterophlias*, *Pereionotus*, *Iphinotus*, *Iphiplateia*, *Quasimodia*, *Heterophlias*, *Iphinotus*, *Heterophlias*. Lower row, *Heterophlias*, *Heterophlias*, ?, *Heterophlias*, *Heterophlias*, *Pereionotus*, *Heterophlias*.
 p. 729 *Urothoides mammarta*, not *mammaria*

If other users of the book have noticed further errata, that may lead to confusion, please let me know.

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- BALBUENA, J.A. & J.A. RAGA, 1991. Ecology and host relationships of the whale-louse *Isocyamus delphini* (Amphipoda: Cyamidae) parasitizing Long-finned pilot whales (*Globicephala melas*) off the Faroes (Northeast Atlantic). ____ *Canadian Journal of Zoology* 69, 141-145.
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- BARNARD, J.L. & C. INGRAM, 1990. Lysianassoid

- Amphipoda (Crustacea) from deep-sea thermal vents. ____ *Smithson. Contr. Zool.* 499, 1 - 80. (Deals with *Euonyx mytilus* n. sp. (Galapagos Vents), with key to *Euonyx* s.l., *Hirondellea gigas*, *H. glutonis* n.sp. (13N rift), *H. guyoti* n.sp. (Hess Guyot), *H. brevicaudata*, with key to *Hirondellea*, *Orchomene* (*Abyssorchomene*) *distinctus* (transf. from *Orchomenella*), *O. (A.) abyssorum*, *Ventiella* n.gen., *V. sulfuris* n.sp. (type, Galapagos Rift vent), with key to *Ventiella* and *Schisturella*, and the *Valettiopsis*-group (several keys), with *Valettiopsis*, *Apotectonia* n.gen. with type *A. heterostegos* n.sp. (Galapagos Vents), *Dialectonia* n. gen. with type *D. typhodes* n.sp. (Hamilton Guyot), *Tectoalopsis* n. gen. with type *T. wegneri* n. sp. (12°48'N, 103°56'W), *T. regelatus* n.sp. (Hess Guyot), *T. nebulosus* n.sp. (Jasper Seamount), *T. diabolus* n. sp. (12°48'N, 103°56'W) and *T. fusilus* n.sp. (off Punto S. Telmo, W. Mexico), and *Transtectonia* n.gen. with type *T. torrentis* n.sp. (12°48'N, 103°56'W). All species are from deep-sea vent areas).
- BARNARD, J.L. & G.S. KARAMAN, 1991. The families and genera of marine gammaridean Amphipoda (except marine gammaroides). ____ *Records of the Australian Museum, Supplement* 13, 1-417, 419-866 (This, the new amphipod bible, is Jerry Barnard's farewell present to his colleagues. It is reviewed elsewhere in this issue).
- BARNARD, J.L., K. SANDVED & J.D. THOMAS, 1991. Tube-building behavior in *Grandidierella*, and two species of *Cerapus*. ____ *Hydrobiologia* 223, 2399-254.
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- BEAUMONT, A.R., P.B. NEWMAN, D.K. MILLS, M.J. WALDOCK, D. MILLER & M.E. WAITE, 1989. Sandy-substrate microcosm studies on tributyltin (TBT) toxicity to marine organisms. ____ *Scientia Marina* 53, 737-743 (i.a. *Corophium volutator*).
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- BELL, S.S., 1991. Amphipods as insect equivalents? An alternative view. ____ *Ecology* 73, 350-354.
- BELLAN-SANTINI, D., 1990. Nouvelles espèces d'*Orchomene* s.l. (Crustacea- Amphipoda) des fonds abyssaux. Affinités avec les autres *Orchomene* profonds. ____ *Beaufortia* 41, 15-23. (*O. kaikai* n.sp. (35°N, 142°E, inside the bivalve *Calyptogena phaseoliformis*), and *O. stocki* n.sp. (13°N, 59°W, in sponge washings). A list of deepwater *Orchomene* s.l. is provided).
- BELLAN-SANTINI, D., 1990. Mediterranean deep-sea amphipods: Composition, structure and affinities of the fauna. ____ *Progress in Oceanography* 24, 275-287 (Not seen).
- BERGERSEN, R. & A. KLEMETSEN, 1989. Freshwater eel *Anguilla anguilla* (L.) from North Norway, with emphasis on occurrence, food, age and downstream migration. ____ *Nordic Journal of Freshwater Research* 64 (1988), 54-66. (*Gammarus lacustris* important prey).
- BERMAN, D.I., A.V. ALFIMOV & A.N. LEIRIKH, 1990. (Wintering conditions and cold- resistance of the amphipod, *Traskorchestia ditmari* on the coast of the Sea of Okhotsk.) ____ *Biologiya Morya* (Vladivostok) 1990-5, 31-36 (In Russian, not seen).
- BERNINI, F. & P.A. NARDI, 1990. (Observations on the diet of *Acipenser naccarii* Bp. (Osteichthyes, Acipenseridae) in the Pavia stretch of the Po and Ticino rivers). ____ *Museo Regionale de Science Naturale Bolleino* (Torino) 8, 429-440 (In Italian, not seen. Gammarids dominant prey).
- BERTRAN, C.E., 1989. (Zonation and temporal dynamics of the intertidal macroinfauna in the Lingue river estuary (Valdivia, Chile)). ____ *Revista Chilense de Historia Natural* 62, 19-32 (In Spanish, not seen).
- BERESLOVSKIJ, E.G., 1989. (The feeding of skates, *Raja radiata* and *R. fyllae*, in the Barents and Norwegian Seas). ____ *Vopr. Ikhtiol.* 29, 994-1002 (In Russian, not seen. Young skates eat many amphipods).
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- BIERNBAUM, C.K., 1989. Distribution and seasonality of branchiopod and malacostracan crustaceans of the Santee National Wildlife Refuge, South Carolina. ____ *Brimleyana* 5, 7-30 (i.a. *Hyaella azteca* and *Crangonyx richmondensis*).
- BIKUNA, B. de & N. PRAT, 1991. Factors affecting the distribution of gammarids in chalk-streams of Bizkaia (Basque Country Northern Spain). ____ *Archiv für Hydrobiologie* 122, 463-478.
- BLINN, D.W. & R.W. DAVIES, 1990. Concomitant diel vertical migration of a predatory leech and its amphipod prey. ____ *Freshwater Biology* 24, 401-408 (*Hyaella montezuma*).
- BLOMQUIST, S., 1990. Sampling performance of Ekman grab - in situ observations and design

- improvements. ____ *Hydrobiologia* 206, 245-250.
- BLOMQUIST, S., 1991. Quantitative sampling of soft-bottom sediments: problems and solutions. ____ *Marine Ecology Progress Series* 72, 295-304.
- BOGATOV, V.V., 1991. (Growth and production of amphipods in rivers of southern Primorski Krai (Russian SFSR, USSR)). ____ *Gidrobiologicheskoe Zhurnal* 27 (1), 39-46 (In Russian, not seen. *Gammarus lacustris*?).
- BOROWSKY, B., 1989. The effects of residential tubes on reproductive behaviors in *Microdeutopus gryllotalpa* (Costa) (Crustacea: Amphipoda). ____ *Journal of Experimental Marine Biology and Ecology* 128, 117-125.
- BOROWSKY, B., 1991. Patterns of reproduction of some amphipod crustaceans and insights into the nature of their stimuli. ____ Pp 33-49 in R.T. Bauer & J.W. Martin (eds). *Crustacean sexual biology*. Columbia Univ. Press, N.York.
- BOROWSKY, B. & P. AITKEN-ANDERS, 1991. Sexually dimorphic free-swimming behavior in the amphipod crustacean *Ampelisca abdita*. ____ *Journal of Marine Biology Association UK* 71, 655-664.
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- BOTTUM, D.L. & K.I. JONES, 1990. Species composition, distribution, and invertebrate prey of fish assemblages in the Columbia River Estuary. ____ *Progress in Oceanography* 25, 243-270 (Not seen).
- BOUDRIAS, M.A., 1991. Methods for the study of amphipod swimming: behavior, morphology, and fluid dynamics. ____ *Hydrobiologia* 223, 11-25.
- BOUSFIELD, E.L., 1990. A new genus and species of hadzioidean amphipod crustacean from anchialine pools in Hawaii. ____ *Beaufortia* 41, 25-30 (*Carinomelita janstocki* n. gen. n. sp., a large predatory melitid).
- BOUSFIELD, E.W., 1991. New sandhoppers (Crustacea: Amphipoda) from the Gulf Coast of the United States. ____ *Gulf Research Reports* 8, 271-283 (Deals with *Americorchestia* n.gen. (type: *Orchestia longicornis*), *A. salomani* n.sp. (W. Florida), *A. barbarae* n.sp. (Texas), and *A. heardi* n.sp. (Mississippi). With key to all US talitrid genera and to all *Americorchestia* spp).
- BOUTIN, C. & B. IDBENNACER, 1989. Faune stygobie de Sud de l'Anti-Atlas marocain: Premiers résultats. ____ *Revue des Sciences de l'Eau* 2, 891-904 (Not seen).
- BOWLBY, M.R., E.A. WIDDER & J.F. CASE, 1991. Disparate forms of bioluminescence from the amphipods *Cyphocaris faurei*, *Scina crassicornis* and *S. borealis*. ____ *Marine Biology* 108, 247-253.
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- BRITTON, J.E. & T.J. EIKELAND, 1988. Invertebrate drift. A review. ____ *Hydrobiologia* 166, 77-93.
- BRODEUR, R.D. & W.G. PEARCY, 1990. Trophic relations of juvenile Pacific salmon off the Oregon and Washington coast. ____ *Fisheries Bulletin* 88, 617-636.
- BROWN, A.C. & A. McLACHLAN, 1990. Ecology of sandy shores. ____ Elsevier, Amsterdam, 328 pp (Not seen. Will someone please review this book for AN?)
- BRUSCA, R.C. & M.H. THURSTON, 1990. Comments on the proposed designation of *Lysianax cubensis* Stebbing, 1897 as the type species of *Shoemakerella* Pirlot, 1936 (Crustacea, Amphipoda). ____ *Bulletin of Zoological Nomenclature* 47, 213 (Independent supportive comments by the 2 authors).
- BUHL-JENSEN, L. & J.H. FOSSÅ, 1991. Hyperbenthic crustacean fauna of the Gullmarfjord area (western Sweden): species richness, seasonal variation and long-term changes. ____ *Marine Biology* 109, 245-258.
- BURGER, A.E. & D.W. POWELL, 1990. Diving depths and diet of Cassin's Auklet at Reef Island, British Columbia. ____ *Canadian Journal of Zoology* 68, 1572-1577 (Amph. quite important prey).
- BUSCHMANN, A.H., 1991. Amphipod food preference and *Iridaea* spp. (Rhodophyta) spore release and dispersal. ____ *Journal of Marine Biology Association UK* 71, 891-897.
- BUSCHMANN, A.H. & A. BRAVO, 1990. Intertidal amphipods as potential dispersal agents of carpospores of *Iridaea laminarioides* (Gigartinales, Rhodophyta). ____ *Journal of Phycology* 26, 417-420.
- CAHOON, L.B. & C.R. TRONZO, 1988. A comparison of demersal zooplankton collected at Alligator Reef, Florida, using emergence and reentry traps. ____ *Fisheries Bulletin* 86, 838-845.
- CAHOON, L.B. & C.R. TRONZO, 1990. New records of amphipods and cumaceans in demersal zooplankton collections from Onslow Bay, North Carolina. ____ *Journal of the Elisha Mitchell Scientific Society* 106, 78-84 (Four amphipods new to N. Carolina waters, viz. *Erichthonius difformis*, *Megaluropus agilis*, *Orchomenella pinguis* and *Tiron spiniferum*.)
- CAINE, E.A., 1989. Caprellid amphipod behavior and predatory strikes by fish. ____ *Journal of Experimental Marine Biology and Ecology* 126, 173-180.

- CAINE, E.A., 1991. Reproductive behavior and sexual dimorphism of a caprellid amphipod. ____ *Journal of Crustacean Biology* 11, 56-63 (*Caprella laeviuscula*).
- CAINE, E.A., 1991. Caprellid amphipods: fast food for the reproductively active. ____ *Journal of Experimental Marine Biology and Ecology* 148, 27-33.
- CAMACHO, A.I. & C. PUCH, 1990. Une methode pour la réalisation de dissection et de préparations provisoires de petits crustacés aquatiques souterrains et interstitiels. ____ *Crustaceana* 59, 1-8.
- CAMMEN, L.M., S. CORWIN & J.P. CHRISTENSEN, 1990. Electron transport system (ETS) activity as a measure of benthic macrofaunal metabolism. ____ *Marine Ecology - Progress Series* 65, 171-182 (i.a. *Corophium volutator*).
- CASADEVALL, M. & J. MATAILLONAS, 1990. Feeding habits of *Gnathopis mystax* (Delaroche, 1809) (Anguilliformes, Congridae) in the western Mediterranean. ____ *Journal of Fish Biology* 37, 827-829 (Amph. p. 828).
- CASAUX, R.J., A.S. MAZZOTTA & E.R. BARRERA-ORO, 1990. Seasonal aspects of the biology and diet of nearshore nototheniid fish at Potter Cove, South Shetland Islands, Antarctica. ____ *Polar Biology* 11, 63-72 (Gammarid amphipods main food).
- CEDERWALL, H., 1990. Diurnal pelagic swimming activity of *Pontoporeia* ____ a waste of energy? ____ *Annales Zoologici Fennici* 27, 307 (Abstract only).
- CHAMIER, A-C., 1991. Cellulose digestion and metabolism in the freshwater amphipod *Gammarus pseudolimnaeus* Bousfield. ____ *Freshwater Biology* 25, 33-40.
- CHARVAT, D.L., W.G. NELSON & T.A. ALLENBOUGH, 1990. Composition and seasonality of sand-beach amphipod assemblages off the East coast of Florida. ____ *Journal of Crustacean Biology* 10, 446-454.
- CHERNYSHEVA, I.V., 1990. Effect of pollution on the benthic fauna of the Lower Don. ____ *Gidrobiologesky Zhurnal* 26 (1), 65-70 (Russian translated into English).
- CHESSA, L.A., G. BIONDA, M.C. BUJA, M.C. GAMBI, M. LORENTI, R. MAJ, R. MANCONI, M. MARTINELLI, M.G. PINTUS, G.F. RUSSO, M.B. SCIPIONE & E. TARAMELLI, 1989. (A *Posidonia oceanica* bed in North-western Sardinia) ____ *Oebalia* 15, 99-107. (In Italian).
- CHEVRIER, A., P. BRUNEL & D.J. WILDISH, 1991. Structure of a suprabenthic shelf sub-community of gammaridean Amphipoda in the Bay of Fundy compared with similar sub-communities in the Gulf of St. Lawrence. ____ *Hydrobiologia* 223, 81-104.
- CHILTON, E.W., 1990. Macroinvertebrate communities associated with three aquatic macrophytes (*Ceratophyllum demersum*, *Myriophyllum spicatum*, and *Vallisneria spiralis*) in Lake Onalaska, Wisconsin. ____ *Journal of Freshwater Ecology* 5, 455-466 (*Hyalella azteca* most abundant).
- CHILTON, E.W. & F.J. MARGRAF, 1990. Effects of fish predation on invertebrates associated with a macrophyte in Lake Onalaska, Wisconsin. ____ *Journal of Freshwater Ecology* 5, 289-296 (i.a. *Hyalella azteca*).
- CHRISTIANSEN, B., O. PFANNKUCHE & H. THIEL, 1990. Vertical distribution and population structure of the necrophagous amphipod *Eurythenes gryllus* in the West-European basin. ____ *Marine Ecology - Progress Series* 66, 35-45.
- CIAVATTI, G., 1989. (Talitrids (Crustacea, Amphipoda) on the beaches of La Guadeloupe; Description of two new species). ____ *Ann. Inst. océanogr.* 65, 127-146 (In French, not seen. Deals with *Floresorchestia guadalupensis* n.sp., *Tethorchestia karukarae* n.sp., *Platorchestia platensis*, *Talorchestia sulenonii* and *Tethorchestia antillensis*).
- COLEMAN, C.O., 1989. On the nutrition of two antarctic Acanthonotozomatidae (Crustacea: Amphipoda). Gut contents and functional morphology of mouthparts. ____ *Polar Biology* 9, 287-294 (*Echiniphimedia hodgsoni* and *Maxilliphimedia longipes*).
- COLEMAN, C.O., 1990. Two new Antarctic species of the genus *Epimeria* (Crustacea: Amphipoda: Paramphithoidae), with description of juveniles. ____ *Journal of the Royal Society of New Zealand* 20, 151-178 (Deals with *E. grandirostris*, *E. oxycarinata* n. sp. (61°10'S, 55°58'W), and *E. pulchra* n.sp. (60°43'S, 45°31'W). Also the much smoother juveniles of both new spp are described and illustrated.)
- COLEMAN, C.O., 1990. *Bathypanoploea schellenbergi* Holman & Watling, 1983, an antarctic amphipod (Crustacea) feeding on Holothuroidea. ____ *Ophelia* 31, 197-205.
- COLEMAN, C.O., 1990. Anatomy of the alimentary canal of *Parandania boeckii* (Stebbing, 1888) (Crustacea, Amphipoda, Stegocephalidae) from the Antarctic Ocean. ____ *Journal of Natural History* 24, 1573-1585 (A Cnidarian feeder).
- COLEMAN, C.O., 1991. Comparative fore-gut morphology of Antarctic Amphipoda (Crustacea) adapted to different food sources. ____ *Hydrobiologia* 223, 1-9.
- COLEMAN, C.O. & J.L. BARNARD, 1991. A review of the genus *Pariphimedia* (Crustacea: Amphipoda: Iphimediidae), with redescription of two species from the Southern Ocean. ____ *Invertebrate Taxonomy* 5, 527-539 (With diagnosis, key to spp. and complete redescription of *P. integricauda* and *P. normani*).
- COLEMAN, C.O. & J.L. BARNARD, 1991. Redescription of two species of *Pseudiphimedia* from

the Southern Ocean (Amphipoda: Iphimediidae). ____ Proceedings of the Biological Society of Washington 104, 76-90 (*P. nodosa* and *P. glabra*).

COLEMAN, C.O. & J.L. BARNARD, 1991. Revision of Iphimediidae and similar families (Amphipoda: Gammaridea). ____ Proceedings of the Biological Society of Washington 104, 253-268 (Deals with the following families, with keys and diagnoses: Amathillopsidae revived (monotypic), Epimeriidae (=Paramphithoidae auct.) with the genera *Paramphithoe* (type), *Actinacanthus*, *Epimeria*, *Epimeriella*, *Metepimeria* and *Uschakovella*; Acanthonotozomellidae n. fam., with the genera *Acanthonotozomella* (type), *Acanthonotozomoides*, *Acanthonotozomopsis* and *Amatiguakius*; Acanthonotozomatidae (now monotypic); Ochlesidae, with the genera *Ochlesis* (type), *Curidia*, *Meraldia* and *Ochlesodius*; Dikwidae n.fam. (monotypic); Iphimediidae, with the genera *Iphimedia* (type), *Anchiphimedia*, *Anisoiphimedia*, *Coboldus*, *Echiniphimedia*, *Gnathiphimedia*, *Iphimediella*, *Labriphimedia*, *Maxilliphimedia*, *Nodotergum*, *Paranchiphimedia*, *Pariphimedia*, *Pseudiphimediella* and *Stegopanoploea*; Odiidae n.fam., with the genera *Odius* (type) and *Postodius*; Astyridae (in paper consistently misspelled Astryidae), with the genera *Astyra* (type) and *Eclysis*; Stilipedidae, with the genera *Stilipes* (type), *Bathypanoploea*, *Alexandrella* and *Astyroides*; Lafystiidae (monotypic here, since *Paralafystius* and *Protolafystius*, both Bousfield, 1987 apparently have been overlooked. WV) and Laphystiopsidae (also monotypic, since *Prolaphystiopsis* here is tentatively synonymized with *Laphystiopsis*). Otherwise, *Epimeriella victoria* is removed to *Epimeria*, *Bathypanoploea* is transferred to the Stilipedidae, and *Epimeriella* returned to the Epimeriidae).

COLEMAN, C.O. & J.L. BARNARD, 1991. *Curidia magellanica*, new species, from Magellan Strait (Crustacea: Amphipoda: Ochlesidae). ____ Proceedings of the Biological Society of Washington 104, 269-278 (With a review of the Ochlesidae, its genera and species, and a key to all species).

COLEMAN, C.O. & J.L. BARNARD, 1991. *Amatiguakius forsberghii*, a new genus and species from Alaska (Marine Amphipoda: Epimeriidae). ____ Proceedings of the Biological Society of Washington 104, 279-287 (In spite of the title, this new taxon from Amatiguchi, Aleutian Isl., is not classified in the Epimeriidae, but in the recently erected family Acanthonotozomellidae).

CONLAN, K.E. 1983 (strangely omitted in A.N. earlier). The amphipod superfamily Corophioidea in the northeastern Pacific region 3. Family Isaecidae: systematics and distributional ecology. ____ National Museum of Natural Sciences, Ottawa, Publications in Natural Sciences 4, 1-75 (A further issue in the series of W. Canadian and Alaskan amphipods. Thirty-one species are described, of which the following are new: *Gammaropsis ellisi* (Br. Col.), *G. shoemakeri* (= *Euryrystheus tenuicornis* var. *lobata* Shoemaker) (Vancouver Isl., B.C.), *Paraeurystheus tzvetkovae* (Aleutian Isl.), *Podoceropsis amchitkensis*

(Al. Isl.), *P. angustimana* (Vancouver Isl., B.C.), *P. chionoecetophila* (Oregon, from the Tanner Crab, *Ch. tanneri*), *P. setosa* (Al. Isl.), *Cheirimeidia macrocarpa americana* n.ssp. (B.C.), *C. macrodactyla* (St. Lawrence Isl., Alaska), *C. similicarpa* (Vancouver Isl., B.C.), *Photis macinerineyi* Victoria, B.C.), *P. oligochaeta* (B.C.), *P. pachydactyla* (Vancouver Isl. B.C.), and *P. parvidous* (Vancouver Isl. B.C.). As the result of a numerical analysis, the genera *Paraeurystheus* and *Podoceropsis* are kept apart from *Gammaropsis*, *G. dentatus* is transferred to *Paraeurystheus*, *P. gurvitzii* to *Gammaropsis* and *Protomeidia dulkeiti*, *P. gurjanovae*, *P. palmata* and *P. macrocarpa* to the rediagnosed genus *Cheirimeidia*.

CONLAN, K.E., 1990. Revision of the crustacean amphipod genus *Jassa* Leach (Corophioidea: Ischyroceridae). ____ Canadian Journal of Zoology 68, 2031-2075 (A long awaited and much needed revision of this difficult genus. Deals with *J. fenwicki* n.sp. (Snare, N.Z.), *J. justii* n.sp. (Macquarie Isl. subantarctic), *J. alonsoae* n.sp. (S. Georgia), *J. hartmannae* n. sp. (Snare, N.Z.), *J. gruneri* n. sp. (Tasmania), *J. stauderi* n.sp. (Br. Columbia, Canada), *J. marmorata*, *J. oclairi* n.sp. (Amchitka Isl., Alaska), *J. morinovi* n. sp. (Tababe Bay, Japan), *J. slatteryi* n.sp. (California), *J. carltoni* n.sp. (California), *J. borowskyae* n.sp. (Br. Columbia, Canada), *J. myersi* n.sp. (California), *J. ingens*, *J. shawi* n.sp. (Br. Columbia, Canada), *J. thurstoni* n.sp. (S. Orkney Isl., subantarctic), *J. pusilla*, *J. falcata* and *J. herdmanni*. A key to all spp. is also provided).

CONLAN, K.E., 1991. Precopulatory mating behavior and sexual dimorphism in the amphipod Crustacea. ____ Hydrobiologia 223, 255-282.

COREY, S.G., 1990. Distributional patterns of Amphipoda in the Bay of Fundy region, Canada. ____ Crustaceana 58, 291-308.

CORREA CRUZ, M., 1990. (Estimation of the caloric content of *Talorchestia margaritae* (Talitridae: Amphipoda). ____ Boletim dell Instituto Oceanographico de Venezuela, Universidad Oriente 24 (1985), 11-14 (In Spanish, not seen.)

COSTELLO, M.J., J.M.C. HOLMES, D. McGRATH & A.A.MYERS, 1990. A review and catalogue of the Amphipoda (Crustacea) in Ireland. ____ Irish Fisheries Investigations Series B. (Marine) 33 (1989), 1-70 (Lists Irish records of spp recorded in and around Ireland, down to 200 m depth. An additional 47 spp are mentioned from deeper water off the Irish West coast. All you ever wanted to know about Ireland's amphipods).

CRIPPS, G.C. & J. PRIDDLE, 1991. Hydrocarbons in the Antarctic marine environment. ____ Antarctic Science 3, 233-250 (A review paper.)

CRISP, D.J. & B. MWAISEJE, 1989. Diversity in intertidal communities with special reference to the *Corallina officinalis* community. ____ Scientia Marina 53. 365-372.

CROY, M.I. & R.N. HUGHES, 1991. The role of

learning and memory in the feeding behavior of the fifteen-spined stickleback, *Spinachia spinachia*. ____ Animal Behaviour 41, 149-159 (*Gammarus locusta* as prey).

CROY, M.I. & R.N. HUGHES, 1991. The influence of hunger on feeding behaviour and on the acquisition of learned foraging skills by the fifteen-spined stickleback, *Spinachia spinachia*. ____ Animal Behaviour 41, 161-170 (*Gammarus locusta* as prey).

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- VINOGRADOV, G.M., 1990. (Amphipods in the near-bottom layer in the south-western part of the Indian Ocean.) ____ Okeanologiya 30, 121-125 (In Russian. On the boundary between pelagic hyperiids and benthopelagic gammaroids).
- VINOGRADOV, G.M., 1990. (Life form ratio of hyperiid amphipods in different parts of the ocean.) ____ Okeanologiya 30, 656-665 (In Russian).
- VINOGRADOV, G.M., 1990. (The life-forms of the shallow-water amphipods (Crustacea, Amphipoda) of the Great Salma strait.) ____ Biologiya Nauki (Moskva) 0-8, 77-85 (In Russian).
- VINOGRADOV, G.M., 1991. Hyperiid amphipods in the eastern part of the South Pacific gyre. ____ Marine Biology 109, 259- 265 (119 spp, listed on pp 261-262. New species in the genera *Streetsia* and *Hemiscelus* are mentioned, but not here described)
- VINOGRADOV, M.E., A.M. KUDIN, A.V. SMOLKO & T.O. ABRAMYAN, 1991. (Structure of migrating aggregations of pelagic organisms.) ____ Doklady Akademii Nauk SSSR 317, 1226- 1229 (In Russian).
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- VONK, R., 1990. Amsterdam Expedition to the West Indies. 66. *Thalassostygus exiguus* n.g., n. sp., a new marine interstitial melitid (Crustacea, Amphipoda) from Curacao and Klein Bonaire (Netherlands Antilles). ____ Stygologia 5, 43-48.
- VONK, R., 1991. Two marine interstitial *Metaniphargus* species (Crustacea, Amphipoda) from Hawaii and the Cayman Islands. ____ Stygologia 6, 111-118 (*M. sabulonis* n.sp. from Cayman Isl., *M. laakona* (transferred from *Eriopisa*) from Oahu, Hawaii.)
- VONK, R. & E. SANCHEZ, 1991. A new marine interstitial ingolfiellid (Crustacea, Amphipoda, Ingolfiellidae) from Tenerife and Hierro. ____ Hydrobiologia 223, 293- 299. (*I. canariensis* n. sp.)
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- WALLER, G.N.H., 1989. Two new species of whale lice (Cyamidae) from the ziphiid whale *Berardius bairdi*. ____ Investigations on Cetacea 22, 292-297 (*Platycyamus flaviscutatus* n. sp. and *Cyamus orubraedon* n. sp.)
- WARREN, A. & J. PAYNTER, 1991. A revision of *Cothurnia* (Ciliophora: Peritrichida) and its morphological relatives. ____ Bulletin of the British Museum of Natural History, Zoology 57, 17-59.
- WEEKS, J.M. & P.G. MOORE, 1991. The effects of synchronous moulting on body copper and zinc concentrations in four species of talitrid amphipods (Crustacea). ____ Journal of Marine Biology Association UK 71, 481-488.
- WEEKS, J.M. & P.S. RAINBOW, 1990. A dual-labelling technique to measure the relative assimilation efficiencies of invertebrates, taking up trace metals from food. ____ Functional Ecology 4, 711-717.
- WEEKS, J.M. & P.S. RAINBOW, 1991. The uptake and accumulation of zinc and copper from solution by two species of talitrid amphipods (Crustacea). ____ Journal of Marine Biology Association UK 71, 811-826 (*Orchestia gammarellus* and *O. mediterranea*.)
- WEIGMANN-HAAS, R., 1990. Taxonomie und Verbreitung von *Vibilia antarctica* Stebbing 1888 im antarktischen Teil des Atlantik (Crustacea: Amphipoda: Hyperiidea). ____ Senckenbergiana Biologia 70 (1989), 419-428.
- WEIGMANN-HAAS, R., 1991. Zur Taxonomie und Verbreitung der Gattung *Hyperoche* Bovallius 1887 im antarktischen Teil der Atlantik (Crustacea: Amphipoda: Hyperiidea). ____ Senckenbergiana Biologia 71 (1989), 169-179 (Deals with *H. luetkenides* and *H. capucinus*)
- WEINBERG, S. & W. v. ZIJL, 1990. A multidisciplinary study of Jan Hendrik Stock (with the description of one new genus and four new species). ____ Bulletin of the Zoological Museum, Amsterdam, special Issue, 1-44 (A courageous effort to unravel the history and personality of Jan Stock, published at the occasion of his retirement as professor of zoology at Amsterdam University. Even I, who have known Jan since he was 20, learned a lot from this insightful paper. Highly recommended).
- WESLAWSKI, J.M., S. KWASNIEWSKI & J. WIKTOR, 1991. Winter in a Svalbard fiord ecosystem. ____ Arctic

44, 115-123.

WHITEHURST, I.T., 1989. Factors affecting the *Gammarus* to *Asellus* ratio in unpolluted and polluted waters. ____ Dissertation Abstracts B- Sci. 2 Eng. 50, 351 pp (Not seen).

WHITFIELD, A.K., 1989. The benthic invertebrate community of a southern Cape estuary: Structure and possible food sources. ____ Transactions of the Royal Society of South Africa 47, 159-190 (i.a. *Melita zeylanica*, *Urothoe pulchella* and *Orchestia*. Not seen.)

WILDISH, D.J. & B. FROST, 1991. Volumetric growth in gammaridean Amphipoda. ____ Hydrobiologia 223, 171-176.

WILLIAMS, D.D., 1991. Life history traits of aquatic arthropods in springs. ____ Memoirs of the Entomological Society of Canada 155, 63-88 (Not seen. Amph.?)

WILLIAMS, W.D., A.J. BOULTON & R.G. TAAFFE, 1990. Salinity as a determinant of salt lake fauna: a question of scale. ____ Hydrobiologia 197, 257-266.

WILSON, W.H., 1991. Competition and predation in marine soft-sediment communities. ____ Annual Review of Ecology and Systematics 21, 221-241.

WONES, A.G. & G.L. LARSON, 1991. The benthic macro invertebrate community in a coastal sand dune lake relative to habitat and changing lake levels. ____ Hydrobiologia 213, 167-181 (An Oregon study).

Corophium spinicorne dominant in littoral zones).

YAMATO, S., 1990. Two new species of the genus *Melita* (Crustacea: Amphipoda) from shallow waters of the Seto Inland Sea of Japan. ____ Publications of the Seto Marine Biology Laboratory 34, 149-165 (*M. hoshinoi* n.sp. and *M. quadridentata* n.sp. The author does not recognize the genus *Abludomelita*.)

ZANDER, C.D., 1990. Prey selection of the shallow water fish *Pomatoschistus minutus* (Gobiidae, Teleostei) in the SW Baltic ____ Helgoländer Meeresuntersuchungen 44, 147-157.

ZEIDLER, W., 1990. Pelagic Amphipoda, infraorder Physosomata (Crustacea: Amphipoda: Hyperiidea) from the CSK International Zooplankton Collection (western North Pacific) with the description of four new species of *Scina*. ____ Publications of the Seto Marine Biology Laboratory 34, 167-200 (Describes *Scina curvidactyloides* n. sp., *S. parasetigera* n. sp., *S. hurleyi* n. sp., *S. exospina* n. sp. and *Scina* sp., and provides a key to world *Scina*).

ZHENG, Z., 1990. (Environmental sex determination and sex ratio in Crustacea). ____ Journal of Oceanography of Taiwan Straits 9, 191- 199. (In Chinese, not seen.)

ZMUDZINSKI, L., 1990. Past and present occurrence of Malacostraca glacial relicts in Polish lakes. ____ Annales Zoologici Fennici 27, 227-230 (i.e. *Pallasea* and *Pontoporeia affinis*.)

NEW AMPHIPOD TAXA IN AMPHIPOD NEWSLETTER 19

Wim Vader

As promised, I'll try to bring out an index to each AN from now on.

New families and subfamilies in AN 19

ACANTHONOTOZOMELLIDAE Coleman & Barnard, 1991. *Acanthonotozomella* (type), *Acanthonotozomoides*, *Acanthonotozomopsis* and *Amatiguakius*

AMATHILLOPSIDAE (revived) Coleman & Barnard, 1991. *Amathillopsis* (type)

DIKWIDAE Coleman & Barnard, 1991. *Dikwa* (type)

ODIIDAE Coleman & Barnard, 1991. *Odius* (type), *Postodius*

VICMUSIIDAE Just, 1990. *Vicmusia*

WANDINIDAE Lowry & Stoddart, 1990. *Wandin* (type), *Pseudocyphocaris*

New genera and subgenera in AN 19

AMATIGUAKIUS Coleman & Barnard, 1991. *Acanthonotozomellidae*. *A. forsberrghii*.

AMERICORCHESTIA Bousfield, 1991. Talitridae. *Orchestia longicornis* (+3)

APOTECTONIA Barnard & Ingram, 1990. Lysianassoidea *A. heterostegos*.

BONASSA Barnard & Karaman, 1991. Lysianassoidea *Lysianassa bonairensis*

CAECONYX Barnard & Karaman, 1991. Lysianassoidea *Hoplonyx caeculus*

- CARINOMELITA Bousfield, 1990. Melitidae. *C. janstocki*
- CERRORCHESTIA Lindeman, 1990. Talitridae. *C. hyloraina*
- CONCARNES Barnard & Karaman, 1991. Lysianassoidea. *Socarnes concavus*
- CORNUDILLA Barnard & Karaman, 1991. Oedicerotidae. *Westwoodilla cornuta*
- COXIMEDON Barnard & Karaman, 1991. Lysianassoidea. *Normania latimana* (+1)
- DARTENASSA Barnard & Karaman, 1991. Lysianassoidea. *Lysianassa dartevillei*
- DIATECTONIA Barnard & Ingram, 1990. Lysianassoidea. *D. typhodes*.
- DISSIMINASSA Barnard & Karaman, 1991. Lysianassoidea. *Aruga dissimilis*
- FALCONASSA Barnard & Karaman, 1991. Lysianassoidea. *Lysianassa falcata*
- GRONELLA Barnard & Karaman, 1991. Lysianassoidea. *Anonyx groenlandicus*
- HARDAMETOPA Barnard & Karaman, 1991. Stenothoidae. *Metopa nasuta* (+1)
- LYSIANASSINA Costa, 1867 (revived, Barnard & Karaman 1991) Lysianassoidea. *Lysianax longicornis*
- MACRONASSA Barnard & Karaman, 1991. Lysianassoidea. *Aruga macromerus* (+1)
- MARTENSIA Barnard & Karaman, 1991. Lysianassoidea. *Lysianassa martensi*
- MESOCHTONGIDIELLA subgen. Grosso & Fernandez, 1985. Bogidiellidae (*Bogidiella*). *B. (M.) tucumanensis*.
- MEXITROIDES subgen. Lindeman, 1990. Talitridae (*Caribotroides*). *C. (M.) pecki* (+1)
- OTAGIA Barnard & Karaman, 1991. ? Condukiidae. *Platyischnopus neozelanicus*
- PARADICAPRELLA Hirayama, 1990. Caprellidea. *P. brucei*
- RADYOPEDOS Andres & Rauschert, 1990. Podoceridae. *P. antarcticus*
- PLUMITHOE Barnard & Karaman, 1991. Amphithoidae. *Amphithoe plumicornis* (+1)
- PSEUDODULICHIA Rauschert, 1990. Podoceridae. *Dulichia antarctica*
- RELICTOMOERA Barnard & Karaman, 1991. Eusiroidea. *Paramoera relicta* (+1)
- RINGARINGA Barnard & Karaman, 1991. Phoxocephalidae. *Metaphoxus littoralis*
- SEPTCARNES Barnard & Karaman, 1991. Lysianassoidea. *Socarnes septimus*
- STERNOMOERA Barnard & Karaman, 1991. Eusiroidea. *Paramoera yezoensis* (+2)
- TECTOVALOPSIS Barnard & Ingram, 1990. Lysianassoidea. *T. wegneri* (+4)
- THALASSOSTYGIUS Vonk, 1990. Melitidae. *Th. exiguus*.
- TRANSTECTONIA Barnard & Ingram, 1990. Lysianassoidea. *T. torrentis*
- TULUWECKELIA Holsinger, 1990. Hadziidae. *T. cernua*
- URONYCTUS Stock & Iliffe, 1990. Crangonyctidae. *U. longicaudatus*
- VENTIELLA Barnard & Ingram 1990. Lysianassoidea. *V. sulfuris*
- VICMUSIA Just, 1990. Vicmusiidae. *V. duplocoxa*
- WANDIN Lowry & Stoddart, 1990. Lysianassoidea. Wandinidae. *W. griffini*

New species and subspecies in AN 19

- ALEXANDERI (*Stenula*) Tzvetkova & Golikov, 1990. Laptev Sea, Siberia
- ALONSOAE (*Jassa*) Conlan, 1990. S. Georgia.
- ALPINUS subsp. (*Niphargus strouhali*) Karaman & Ruffo, 1989. Italian Alps.
- AMCHITKENSIS (*Podoceropsis*) Conlan, 1983. Aleutian Isl.
- AMERICANA subsp. (*Cheirimedeia macrocarpa*) Conlan, 1983. British Columbia
- ANGUSTIMANA (*Podoceropsis*) Conlan, 1983. Vancouver Isl., Br. Columbia.
- ANTARCTICUS (*Paradyopodos*) Andres & Rauschert, 1990. 61°S, 54°W.
- AQUATICA (*Bogidiella*) Karaman, 1990. Kreta.
- AROUDANENSIS (*Metacrangonyx*) Messouli, Boutin & Coineau, 1991. Haut Atlas, Morocco.
- ASIATICUS (*Parallorchestes*) Tzvetkova, 1990. E. Kamchatka.
- ASSOCIATUS (*Pseudoniphargus*) Sanchez, 1990. Tenerife, Canary Isl.

- ATLANTICA (*Bogidiella*) Sanchez, 1991. W. Canary Isl.
- AULICUS (*Niphargus*) Karaman, 1991. N. Dalmatia, Croatia.
- BARBARAE (*Americorchestia*) Bousfield, 1991. Texas.
- BARNARDI (*Lembos*). Ortiz & Nazabal, 1988. Cuba.
- BERGAE (*Haplogynglymus*). Pretus & Sabater, 1990. Catalonia, NE Spain.
- BISAETA (*Hyale*). Kim & Kim, 1991. Ulreung Isl., S. Korea.
- BOROWSKYAE (*Jassa*) Conlan, 1990. Br. Columbia.
- BOUSFIELDI (*Carinobatea*) Ortiz, 1991. W. coast Florida.
- BOUSFIELDI (*Metopella*) Tzvetkova & Golikov, 1990. Laptev Sea, Sibiria.
- BOWMANI (*Phronima*) Shih, 1991. Eastern tropical Pacific.
- BRACHYCLADUS (*Ampelisca*) Roney, 1990. Southern California.
- BREVISPINA (*Maera*) Kim & Kim, 1991. Ulreung Isl., S. Korea.
- BROCHA (*Netamelita*) Thomas & Barnard, 1991. Florida Keys.
- BRUCEI (*Paradicaprella*) Hirayama, 1990. N. Caledonia.
- CAMPI (*Carinobatea*) Ortiz, 1991. West coast Florida.
- CANARIENSIS (*Ingolfiella*) Vonk & Sanchez, 1991. Tenerife, Canary Isl.
- CANDELARIAE (*Pseudoniphargus*) Sanchez, 1990. Tenerife, Canary Isl.
- CARLTONI (*Jassa*) Conlan, 1990. California.
- CERNUA (*Tuluweckelia*) Holsinger, 1990. Yucatan, Mexico.
- CHIAPENSIS (*Caribotroides*) Lindeman, 1990. Chiapas, Mexico.
- CHIONOECETOPHILA (*Podoceropsis*) Conlan, 1983. Oregon, USA.
- CONCINNA (*Caprella*) Mateus & Mateus, 1991. Cap Verde Isl.
- CONVEXA (*Urothoe*) Kim & Kim, 1991. Channam, S. Korea.
- CURVIDACTYLOIDES (*Scina*) Zeidler, 1990. Western North Pacific.
- CYPRIA (*Bogidiella*) Karaman, 1989. Cyprus.
- DELAMAREI (*Metacrangonyx*) Messouli, Boutin & Coineau, 1991. Oued Dades, Haut Atlas, Morocco.
- DENTATA (*Gondogeneia*) Alonso, 1986. Santa Cruz, Argentina.
- DENTICULUS (*Paranamixis*) Kim & Kim, 1991. Ulreung Isl., S. Korea.
- DENTIPALMA (*Ventojassa*) Kim & Kim, 1991. Ulreung Isl., S. Korea.
- DIABOLUS (*Tectoalopsis*) Barnard & Ingram, 1990. 12°48'N, 103°56'W, vent areas.
- DOMINICA (*Gitana*) Thomas & Barnard, 1990. Dominica, Caribbean.
- DORSOSETOSUS (*Gammarus*) Mateus & Mateus, 1990. SE Turkey.
- DRACOSPIRITUS (*Ingolfiella*) Griffiths, 1989. Namibia.
- DULCICOLA (*Melita*) Stock & Vonk, 1990. La Gomera, Canary Isl.
- DUNBARI (*Phronima*) Shih, 1991. Eastern tropical Pacific.
- DUPLOCOXA (*Vicmusia*) Just, 1990. Bass Strait, Australia.
- ELLISI (*Gammaropsis*) Conlan, 1983. British Columbia.
- ENTRICHOMA (*Ensayara*) Gable & Lazo-Wasem, 1990. Bermuda.
- EOUSIDES (*Anonyx*) Steele, 1991. Okhotsk Sea.
- EPIGAEA (*Palmorchestia*) Stock, 1990. La Palma, Canary Isl.
- EXIGUUS (*Thalassostygus*) Vonk, 1990. Curacao.
- EXOSPINA (*Scina*) Zeidler, 1990. Western N. Pacific.
- FASTIDIOSA (*Ampithoe*) Mateus & Mateus, 1991. Cap Verde.
- FENWICKI (*Jassa*) Conlan, 1990. Snares, N. Zealand.
- FLAVIS CUTATUS (*Platycyamus*) Waller, 1989. ?
- FORSBERGHII (*Amatiguakius*) Coleman & Barnard, 1991. Aleutian Isl.
- FUSILUS (*Tectoalopsis*) Barnard & Ingram, 1990. off W. Mexico, vent area.
- GLABRA (*Caprella*) Aoki, 1991. W. Kyushu, Japan.
- GLANDULATUS (*Eoniphargus*) Stock & Jo, 1990. S. Korea.

- GLUTONIS (*Hirondellea*) Barnard & Ingram, 1990. 13°N rift, vent area.
- GOBABIS (*Ingolfiella*) Griffiths, 1989. Namibia.
- GOMERI (*Orchestia*) Stock, 1989. La Gomera, Canary Isl.
- GOSEMA (*Pseudocyphocaris*) Lowry & Stoddart, 1990. Madang lagoon, Papua NG.
- GOULMIMENSIS (*Metacrangonyx*) Messouli, Boutin & Coineau, 1991. Goulmima, Morocco.
- GREBNITZKII (*Anonyx*) Steele, 1991. Bering Island.
- GRIFFINI (*Wandin*) Lowry & Stoddart, 1990. Great Barrier Reef.
- GRUBERI (*Dikerogammarus*) Mateus & Mateus, 1990. SE Turkey.
- GRUNERI (*Jassa*) Conlan, 1990. Tasmania.
- GUADALUPENSIS (*Floresorchestia*) Ciavatti, 1989. Guadeloupe, Caribbean.
- GURJANOVAE (*Metopa*) Tzvetkova & Golikov, 1990. Laptev Sea.
- GUYOTI (*Hirondellea*) Barnard & Ingram 1990. Hess Guyot, vent area.
- HANAMURAI (*Paramoera*) Hirayama, 1990. Hokkaido, Japan.
- HARTMANNAE (*Jassa*) Conlan, 1990. The Snares, N. Zealand.
- HEARDI (*Americorchestia*) Bousfield, 1991. Mississippi, USA.
- HETEROSTEGOS (*Apotectonia*) Barnard & Ingram, 1990. Galapagos Vents.
- HONGKONGENSE (*Corophium*) Hirayama, 1986. Hong Kong.
- HOONSOOI (*Podocerus*) Kim & Kim, 1991. Ulreung Isl., S. Korea
- HOSHINOI (*Melita*) Yamato, 1990. Seto Inland Sea, Japan.
- HURLEYI (*Scina*) Zeidler 1990. Western North Pacific.
- HWANGHAENSIS (*Liljeborgia*) Kim & Kim, 1990. Yellow Sea, Korea.
- HYLORAINA (*Cerrorchestia*) Lindeman, 1990. Monteverde, Costa Rica.
- INCIDERIS (*Gammaropsis*) Lyons & Myers, 1991. Gulf of Aqaba, Red Sea.
- INCONDITUS (*Pseudoniphargus*) Karaman & Ruffo, 1989. Sicilia, Italy
- INOPINATUS (*Gammarus*) Mateus & Mateus, 1990. Near Istanbul, Turkey.
- ITALICUS subsp. (*Pseudoniphargus africanus*) Karaman & Ruffo, 1989. Sicilia, Italy.
- JADRANKA subsp. (*Niphargus rejici*) Sket & Karaman 1990. Krk, Croatia.
- JANSTOCKI (*Carinomelita*) Bousfield, 1990. Hawaii.
- JAYNEAE (*Haustorius*) Foster & Lecroy, 1991. Northern Gulf of Mexico.
- JUSTI (*Jassa*) Conlan, 1990. Macquarie Isl., subantarctic.
- KAIKAI (*Orchomene*) Bellan-Santini, 1990. 35°N, 142°E, deep water.
- KARUKARAE (*Tethorchestia*) Ciavatti, 1989. Guadeloupe, Caribbean.
- KERAKAE (*Lysianassa*) Lyons & Myers, 1991. Gulf of Aqaba, Red Sea.
- KINGELEPHA (*Thaumatesonella*) Rauschert & Andres, 1991. S. Shetland Islands.
- KOMINATOENSIS (*Caprella*) Takeuchi, 1986. Chiba, Japan.
- KOREANUS (*Ceradocus*) Kim & Kim, 1989. Pusan, S.Korea.
- KOREANUS (*Elasmopus*) Kim & Kim, 1991. Ulreung Isl., S. Korea.
- LACERTOSA (*Maera*) Mateus & Mateus, 1991. Cap Verde.
- LAETIFUCATUS (*Coboldus*) Just, 1990. Barbados, W. Indies.
- LEFKODEMONAKI (*Niphargobates*) Sket, 1990. Kreta, Greece.
- LEPIDA (*Synurella*) Mateus & Mateus, 1991. Turkey.
- LOBATA (*Dulzura*) Stock & Vonk, 1991. Cap Verde.
- LOBATA (*Pseudocyphocaris*) Lowry & Stoddart 1990. Madang lagoon, Papua NG
- LOBIFERUS (*Liagoceradocus*) Stock & Iliffe, 1991. Solomon Islands.
- LONGICAUDUS (*Uronyctus*) Stock & Iliffe, 1990. Mt. Gambier, W. Australia.
- LONGIDACTYLA (*Guernea*) Hirayama, 1986. Hong Kong.

- LONGIDACTYLUS (*Eohaustorius*) Jo, 1990. Chungnam, S. Korea
- LOWRYI (*Shoemakerella*) Gable & Lazo- Wasem, 1990. Bermuda.
- MACINERINEYI (*Photis*) Conlan, 1983. British Columbia
- MACKIEI (*Guernea*) Hirayama, 1986. Hong Kong.
- MACRODACTYLA (*Cheirimedeia*) Conlan, 1983. St. Lawrence Isl., Alaska.
- MAGELLANICA (*Curidia*) Coleman & Barnard, 1991. Magellan Straits, S. America.
- MARGULISAE (*Pleusymtes*) Tzvetkova & Golikov, 1990. Laptev Sea.
- MESSANAI (*Niphargus*) Karaman, 1989. Tuscany, Italy.
- MIAE (*Gammarus*) Mateus & Mateus, 1980. Iran.
- MIOSPINULOSUM subsp. (*Corophium sextonae*) Hirayama, 1986. Hong Kong.
- MONDLANEI (*Gammaropsis*) Ortiz, 1990. Mozambique
- MORINOI (*Jassa*) Conlan, 1990. Japan
- MORTONI (*Corophium*) Hirayama, 1986. Hong Kong
- MURIVAI (*Colomastix*) Myers, 1990. Rarotonga, Cook Isl.
- MYERSI (*Jassa*) Conlan, 1990. California.
- MYTILUS (*Euonyx*) Barnard & Ingram, 1990. Galapagos Vents.
- NEBULOSUS (*Tectovalopsis*) Barnard & Ingram, 1990. Jasper Seamount, vent area.
- NEWTONI (*Caribotroides*) Lindeman, 1990. Oaxaco, Mexico.
- OCLAIRI (*Jassa*) Conlan, 1990. Amchitka Isl., Alaska.
- ODETTAE (*Gammarus*) Mateus & Mateus, 1990. Central Turkey
- OLIGOCHAETA (*Photis*) Conlan, 1983. British Columbia.
- ORUBRAEDON (*Cyamus*) Waller, 1989. ?
- OXICARINATA (*Epimeria*) Coleman, 1990. 61°S, 56°W,
- PACHYDACTYLA (*Photis*) Conlan, 1983. British Columbia.
- PAGETI (*Gammarus*) Mateus & Mateus, 1990. E. Turkey.
- PANINI Gurjanova nom. nud. (*Harpinia*) Tzvetkova & Golikov, 1990. Laptev Sea.
- PAREOUS (*Anonyx*) Steele, 1991. Okhotsk Sea
- PARVIDOUS (*Photis*) Conlan, 1983. British Columbia.
- PATAGONICA (*Gondogeneia*) Alonso, 1986. Santa Cruz, Argentina.
- PECKI (*Caribotroides*) Lindeman, 1990. Oaxaca, Mexico.
- PECTENCORONATAE (*Niphargus*) Sket & Karaman, 1990. Dalmatia, Croatia.
- PETRAE (*Liljeborgia*) Lyons & Myers, 1991. Gulf of Aqaba, Red Sea.
- PLUMIPES (*Gammarus*) Mateus & Mateus, 1990. Iran.
- POLYNESICA (*Fallotritella*) Müller, 1990. Bora Bora, Society Islands.
- PRETZMANNI (*Gammarus*) Mateus & Mateus, 1990. Iran.
- PSEUDEOUS (*Anonyx*) Steele, 1991. Cape Lisburne, Alaska.
- PTERISCHIUS (*Lemboidea*) Lyons & Myers, 1990. Gulf of Aqaba, Red Sea.
- PULCHRA (*Epimeria*) Coleman, 1990. 61°S, 45°W.
- QUADRIDENTATA (*Melita*) Yamato, 1990. Seto Inland Sea, Japan.
- REGELATUS (*Tectovalopsis*) Barnard & Ingram, 1990. Hess Guyot, vent area.
- RHEOPHILUS (*Rhipidogammarus*) Stock & Sanchez, 1990. Tenerife, Canary Isl.
- RUBRIQUES (*Epimeria*) De Broyer & Klages, 1991. Weddell Sea, Antarctic.
- RUFFOI (*Metacrangonyx*) Messouli, Boutin & Coineau, 1991. Azib Asseln, Morocco.
- SABULONIS (*Metaniphargus*) Vonk, 1991. Cayman Isl., Caribbean.
- SAFIAE (*Leucothoe*) Lyons & Myers, 1991. Gulf of Aqaba, Red Sea.
- SALOMANI (*Americorchestia*) Bousfield, 1991. W. Florida, USA
- SARDOUS (*Tyrrhenogammarus*) Karaman & Ruffo, 1989. Sardinia, Italy.
- SETOSA (*Podoceropsis*) Conlan, 1983. Aleutian Islands.
- SETULOSUS (*Eohaustorius*) Jo, 1990. Pusan, S. Korea.

- SHAWI (*Jassa*) Conlan, 1990. British Columbia. Rift, vent area.
- SHOEMAKERI (*Gammaropsis*) Conlan, 1983. British Columbia. TABACI (*Netamelita*) Thomas & Barnard, 1991. Belize, C. America.
- SHOEMAKERI (*Metopa*) Tzvetkova & Golikov, 1990. Laptev Sea. TAIHUENSIS (*Grandidierella*) Morino & Dai, 1990. Taihu, Wuxi, China.
- SIMILICARPA (*Cheirimeidia*) Conlan, 1983. British Columbia. THURSTONI (*Jassa*) Conlan, 1990. S. Orkney Isl., subantarctic.
- SIMILIS subsp. (*Niphargus galvagni*) Karaman & Ruffo, 1989. Italian Alps. TORRENTICOLA (*Bogidiella*) Pretus & Stock, 1990. Mallorca, Spain.
- SINEPLUMOSA (*Sunamphitoe*) Kim & Kim, 1991. Ulreung Isl., S. Korea. TORRENTIS (*Transtectonia*) Barnard & Ingram, 1990. 13°N 104°W, vent area.
- SINICA (*Bogidiella*) Karaman & Sket, 1990. Zhuang AR, China. TRIANGULOPEDARUM (*Corophium*) Hirayama, 1986. Hong Kong.
- SKETI (*Gammarus*) Karaman, 1989. Lake Ohrid, Montenegro. TRIDENTIUM (*Corophium*) Hirayama, 1986. Hong Kong.
- SLATTERYI (*Jassa*) Conlan, 1990. California. TROPHERUS (*Photis*) Thomas & Barnard, 1991. Dominica, West Indies.
- SOMBATI (*Guernea*) Hirayama, 1986. Hong Kong. TUCUMANENSIS (*Bogidiella*) Grosso & Fernandez, 1985. Tucuman, Argentina.
- SPINIGERUS (*Eohaustorius*) Jo, 1990. Chungnam, S. Korea. TUXTLENSIS (*Caribotroides*) Lindeman, 1990. Vera Cruz, Mexico.
- SQUAMOSA (*Hyalella*) Mateus & Mateus, 1990. Guadeloupe, W. Indies. TYPHODES (*Diatectonia*) Barnard & Ingram, 1990. Hamilton Guyot, vent area.
- STAUDEI (*Jassa*) Conlan, 1990. British Columbia. TZVETKOVAE (*Paraeurystheus*) Conlan, 1983. Aleutian Isl.
- STOCKI (*Bogidiella*) Karaman, 1990. Sinai peninsula, Egypt. ULREUNGENSIS (*Podocerus*) Kim & Kim, 1991. Ulreung Isl., S. Korea.
- STOCKI subsp. (*Hadzia fragilis*) Karaman, 1989. NE Italy. UNCIFERUS (*Liagoceradocus*) Stock & Iliffe, 1991. Fiji.
- STOCKI (*Jerbarnia*) Thomas & Barnard, 1990. Great Barrier Reef. VALEDICTUS (*Echinogammarus*) Pinkster & Platvoet, 1990. Algeria.
- STOCKI (*Maera*) Mateus & Mateus, 1991. Cap Verde. WARRAINA (*Iphimedia*) Thomas & Barnard, 1991. S. Australia.
- STOCKI (*Orchestia*) Ruffo, 1990. Gran Canaria, Canary Isl. WEGENERI (*Tectovalopsis*) Barnard & Ingram, 1990. 13°N, 104°W, vent area.
- STOCKI (*Orchomene*) Bellan-Santini, 1990. 13°N, 59°W, deep water. WILLIAMSONI (*Cheiriphotis*) Salman & Jabbar, 1990. Iraq.
- STOCKI (*Pontogeneia*) Hirayama, 1990. Fukushima pref., Japan. XESTA (*Iphimedia*) Thomas & Barnard, 1991. Madang, Papua NG
- STOCKI (*Psammogammarus*) Vonk, 1990. Tenerife, Canary Isl. ZORA (*Iphimedia*) Thomas & Barnard, 1991. Florida Keys, USA.
- SULFURIS (*Ventiella*) Barnard & Ingram, 1990. Galapagos

SYSTEMATIC INDEX TO NEW AMPHIPOD GENERA AND SPECIES IN AN 11-19

Wim Vader

This list covers all new taxa indexed in AN 18, plus those described in papers listed in AN 19; the latter are marked (19) in the list. New genera are written with capitals.

For the sake of easy reference, the present list follows the taxonomy of the recent handbook by Barnard & Karaman (1991), even where more recent revisions have changed the picture. Thus the Corophioidea, Eusiridae, Iphimediidae and Lysianassoidea are here all treated 'sensu lato', as in the handbook. For the gammaroid complex, the earlier handbook by Barnard & Barnard (1983) has been used with the following, admittedly quite arbitrary headings: Anisogammaridae, Artesiidae, Bogidiellidae, 'greater Ceradocus group' (IX A in Bnd & Bnd), cheirocratids (VIII), crangonyctoids, gammaroids (III minus Pontoporeiidae), Gammaroporeiidae, 'Hadzia-Weckelia group' (IX D), Melitidae (IX E 1,2), Mesogammaridae, 'niphargids' (IX E 3-4), Pontoporeiidae, and Salentinellidae. (A few 'hard nuts' are placed as 'incertae sedis' with the gammaroids.). The other suborders have much fewer new taxa, so have been treated practically without subdivision, although the Cyamidae have been kept apart.

It is virtually impossible to satisfy everybody with a list like this one. I can see clear shortcomings myself:

- 1) New families and new subgenera are not included here (Subspecies have been treated as species).
- 2) Only new taxa are listed, not i.a. those spp that have been transferred from one genus to another.
- 3) This list can only be used together with the alphabetic indexes in AN 18 and 19, and only used properly in conjunction with the bibliographies in earlier newsletters.
- 4) The list is uncritical. In all cases the judgement of the original authors has been followed, even where this deviates from the verdict of the B & K- handbook.

It is my intention from now on to publish a similar systematic index in each issue of AN, if there is interest for that. I shall therefore be most grateful for all critical comments and suggestions for improvement.

Ampeliscaidae

Ampelisca acutidentata, armoricana, ballina, bicarinata, bidura, brachycladus (19), burkei, calooma, careyi, dallenei, dimboola, e rythrorhabdota, euroa, fageri, hawaiiensis, hessleri, jingera, karamani, lenoldii, macrodonta, melaniensis, melitae, monoculata, monodi, narooma, nossibeensis, parapacifica, paria, remora, spooneri, tilpa, toora, toulemoniti, verga, yuleba.
Byblis bega, frigidus, gerara, gloriosae, inaequicornis, mildura, robustus, tinamba.
Byblisoides cubensis, plumicornis
Haploops fundiensis, oona.

Amphilochidae

AFROGITANOPSIS
Amphilochus casahoya, delacaya, pillai, rupert
Gitana dominica (19), gracilis
Gitanopsis baciroa, breviculus, japonica, laguna, longus, petulans, robustodentes, tai,? tenuipes
PARAMPHILOCHUS parachelatus
ROSTROGITANOPSIS

Ampithoidae

Ampithoe brevipalma, dentimana, fastidiosa (19), guaspae, hirsuta, kancohe navosa (sub *Pleonexes*), kava, koreana, kual, maxillisius, nobrei, plumicornis, sectimanus, spuria, tahue, vacoregue, youngsanensis
Cymadusa grossimana, lunata, pilipes
Examphithoe (MELANESIUS) cooki, gracilipes
Paradusa bilobata, pilipes
PERAMPHITHOE baegrycongensis, lessoniophila, namhaensis
PLUMITHOE (19)
PSEUDOPLEONEXES
Sunamphitoe sineplumosa (19)

Anamixidae

Anamixis barnardi
Paranamixis aberro, denticulus (19), madagascarensis

Anisogammaridae*Anisogammarus madyensis**ANNANOGAMMARUS**BARROWGAMMARUS**CARINEOGAMMARUS**Eogammarus oclairi*, *psammophilus**JESOGAMMARUS* *fluviatilis*, *hokurikuensis*, *naritai*, *paucisetulosus*, *spinipalpus*, *suwaensis*.*LOCUSTOGAMMARUS* *levingsi**RAMELLOGAMMARUS* *vancouverensis**SPASSKOGAMMARUS* *tzvetkovae***Artesiidae***ARTESIA* *subterranea***Bateidae***Carinobatea bousfieldi* (19), *campi* (19)**Biancolinidae***Biancolina* (*obtusata*) *sachalinensis***Bogidiellidae***ACTOGIDIELLA* *cultrifera**AEQUIGIDIELLA* *aquilifera**AFRIDIELLA* *messanai*, *pectinicauda**Bogidiella* *antennata*, *aprutina*, *aquatica* (19), *arganoides*, *atlantica* (19), *balearica*, *calicali*, *capia*, *cerberus*, *chitalensis*, *convexa*, *cooki*, *cypria* (19), *cymensis*, *deharvengi*, *gammariformis*, *glabra*, *hamatula*, *hispanica*, *horcomollensis*, *italica*, *mexicana*, *nicolae*, *nubica*, *paolii*, *paraichnusae*, *perla*, *prionura*, *purmamarcensis*, *purpuriae*, *ringueleti*, *sarawacensis*, *serbica*, *silverii*, *sinica* (19), *sketi*, *spathulata*, *talampuyensis*, *thai*, *torrenicola* (19), *tucumanensis* (19), *tyrrhenica*, *uncinata*, *uniramosa*, *virginalis**EOBOGIDIELLA**HEBRAEDIGIDIELLA* *bromleyana**MAGHREBIELLA* *maroccana**MARIGIDIELLA* *crassipes**MARINOBOGIDIELLA**NUBIDIGIELLA**PARABOGIDIELLA* *americana**SOMAGIDIELLA***Ceinidae***AUSTROCHILTONIA* (*revived*)**Cheidae***CHEUS* *annae***Greater Ceradocus group***ANAMAERA* *hixonii**ANIMOCERADOCUS**Ceradocus* *crenatipalma*, *inermis*, *koreanus*, *mahafalensis*, *oxyodus*, *tattersalli*, *woorrea*, *yondala**COXOMAERELLA* *piriloti**Elasmopus* *alalo*, *balkomanus*, *bampo*, *crenulatus*, *integer*, *koreanus* (19), *lapu*, *mayo*, *ocoroni*, *rishikondiensis*, *seticarpus*, *spinicarpus*, *spinipalpus*, *spinipes*, *temori*, *tiburoni*, *tubar*, *visakhapatnamensis*, *waltersi*, *zoanthidea**LUPIMAERA**Maeraaequimana*, *anoculata*, *atlantica*, *brevispina* (19), *chinarra*, *excavata*, *gloriosae*, *griffini*, *lacertosa* (19), *leopoldinae*, *lindsae*, *mooreana*, *multispinosa*, *pedonculata*, *pseudomarginata*, *reishi*, *stocki* (19)*Mallacoota* *bahara*, *latidactylus*, *nananui*, *schellenbergi*, *subinsignis**MEGACERADOCUS* *gigas**Meximaera* *sinuata**Paraceradocus* *gibber*, *ramulus*, *stenepimerus*, *trispinosus**Parelasmpus* *mallacootaformis*, *zelei**Quadrivisio* *bousfieldi*, *lobata*

cheirocratids**AUROHORNELLIA***Cheirocratus armatus*, *bassi*, *praedens*, *spinibasus*, *unidentatus***DEGOCHEROCRATUS** *spani**Gibberulus devaneyi*, *falciformis**Hornellia atlantica*, *tequestae***INCRATELLA** (= **INDOCRATUS**)*Jerbarnia americana*, *aquilopacifica*, *stocki* (19), *tridentata**Maerella ledoyeri**Megaluropus excavatus*, *myersi**Melphidippa linea**Melphisana madagascarensis***MELPHISUBCHELA** *subprehenda**Metaceradocus bidentatus*, ? *inermis***PROSOCRATUS** *butcheri***RESUPINUS** *coloni*, *spinicaudatus***Colomastigidae***Colomastix armata*, *azumai*, *brevicornis*, *cornuta*, *inaequicornis*, *janiceae*, *laminosa* (19), *murivai*(19), *plumosa*, *prionotos* (19), *spinosa*, *truncatipes**Yulumara armadillicta*, *tricuspis***Condukiidae****CONDUKIUS** *karkan*? **OTAGIA****Corophioidea****AETIOPEDES** *gracilis***AFRICOECETES****ANONYCHOCHEIRUS** *richardsoni**Aora adpressa*, *hebes*, *hircosa*, *pseudotypica**Aorcho gracilipes*, *nanus***AORELLA** *multiplex**Aoroides exilis*, *inermis*, *intermedius*, *pseudotypica***AUSTRALOECETES** *jervidis***AUSTRALOMICRODEUTOPUS****BARACUMA** *alquirta**BEMLOS* *arkoolus*, *bidens*, (*ephippium*) *disjuncta*, *dolichomanus*, *ephippium*, *gilgi*, *mollis*, *strigilis*, *tridentatus*, *tris*, *trudis*.*Bonnierella dimorpha***BORNEOECETES** *wongi***BUBOCOROPHIUM****CARIBBOECETES** *barbadensis*, *crassicornis*, *intermedius*, *jenikarpae*, *magellani*, *pterycornis*, *squamiferus*.**CENTRALOECETES***Cerapus benthophilus*, *erae*, *fallohideus*, *harfootus*, *oceanicus*, *pacificus*, *stoorus***CHAETOCOROPHIUM***Cheirimedeia macrodactyla**Cheiriphotis madagascarensis*, *mediterranea*, *minima*, *rotui*, *williamsoni***COLUMBAORA** *cyclocoxa**Concholestes omani***COROCUBANUS** *guitarti***DODOPHOTIS***Erichthonius coxacanthus*, *fasciatus*, *latimanus*, *punctatus*, *stephenseni*, *tacitus**Gammaropsis aculeata*, *arawakia*, *crenulata*, *deseadensis*, *dilatata*, *ellisi* (19), *emancipata*, *incideris* (19), *insignis*, *latipalma*, *longipropodi*, *modiane* (19), *nantis*, *pseudodenticulata*, *shoemakeri* (19), *sutherlandi*, *ulrici*, (*atlanticus*) *varius***GLOBOSOLEMBOS** *lunatus**Grandidierella exilis*, *indentata*, *insulae*, *longidactylus*, *propodentata*, *taihuensis* (19), *teres*, *vietnamica*.*Haplocheira plumosa**Jassa alonsoae* (19), *borowskyae* (19), *carltoni* (19), *fenwicki* (19), *gruneri* (19), *hartmannae* (19), *justi* (19), *morinoi* (19), *myersi* (19), *oclairi* (19), *shawi* (19), *slatteryi* (19), *socia* (19), *staudei* (19), *thurstoni* (19).*Kamaka palmata*

Konatopus latipalma, *tulearensis*
Kuphocheira emancipata
Lemboides caecus, *pterischium* (19)
Lembos achire, *aoraformis*, *barnardi*, *chiltoni*, *clavatus*, *denticarpus*, *habanensis*, *hippocrenes*, *mayensis*,
ovalipes, *ovatus*, *pertinax*, *regius*, *saloteae*, *spinimerus*, (*denticulatus*) *taparum*, *tehuecos*, *tempus*,
tiafaui, *tigrinus*, *tui*, *virgus*.
Leptocheirus dufresni, *rhizophorae*
LIOCUNA caeca
?obliquimana
MERIDIOLEMBOS
Microjassa chinipa
Neohela intermedia
Neomegamphopus heardi, *hiatus*, *kalanii*, *pachiatius*
PAGURISAEA *schembrii*
PARACERAPUS
Paracorophium chelatum, *chilense*, *hartmannorum*
Parajassa andromedae, *bidentata*, *spinipalma*
PARAMICRODEUTOPUS
PAREURYSTHEUS *amakusacensis*, *gurjanovae*, *latipus*, *tzvetkovae* (19).
PEDICOROPHIUM
Photis albus, *beringiensis*, *cavimana*, *japonica*, *lamina*, *macinerineyi* (19), *macromana*, *nigrocula*,
oligochaeta (19), *pachydactyla* (19), *parvidous* (19), *phaecocula*, *pirloti*, *pollex*, *tropherus* (19).
PLESIOLEMBOS
Podoceroopsis amchitkensis (19), *angustimana* (19), *chionoecetophila* (19), *setosa* (19).
POLYNESOECEOTES *kekeae*
POSOPHOTIS *seri*
PROTOLEMBOS *arinyas*, *drummondiae*, *murrarum*, *varanus*
Protomedeia crudoliops
Pseudischyrocerus crenatipes
Pseudomegamphopus chelatus, *pseudochelatus*
PSEUDOPHOTIS *ariakensis*
RAKIROA *rima*
RHINOECETES
Siphonoecetes arabicus, *exolitus*, *kroyeranus*, *neapolitanus*, *striatus*
STEBBINGOECETES
STENOCOROPHIUM *bowmani*
TETHYLEMBOS
Unciola integrupleura
Unciolella articulata
VAROHIOS *topianus*
Ventojassa crenulata, *dentipalma* (19)
Xenocheira ?angusticarpa, *pirloti*
ZOEDEUTOPUS *cinaloanus*

crangonyctoids

ANTIPODEUS *franklini*
AUSTROCRANGONYX
AUSTROGAMMARUS *multispinatus*, *saycei*, *spinatus*
Crangonyx aberrans
DUSSARTIELLA *madegassa*
Paramelita flexa
SANDRO
Sternophysinx alca
Stygobromus canadensis, *quatsinensis*, *secundus*
STYGONYX *courtneyi*
Synurella lepida (19), (*coeca*) *rafalskii*
TASNIPHARGUS *tyleri*
Uroctena affinis
URONYCTUS (19) *longicaudus* (19)
WESNIPHARGUS
YULIA

Cyproideidae

Austropheonoides splendens, truganini
Cyproidea liodactyla, marmorata
Moolapheonoides angustipes, (coocoo) seraa
TEREPELTOPES dolichorhunia

Dexaminidae

Atylus brevitarsis, megalops, tulearensis, urocarinatus
DEXAMINOCULUS (= *Sphaerophthalmus*) acutipes, cavimana
Guernea ezoensis, longicornis, longidactyla (19), mackiei (19), magnaphilostoma, minor, nullispina,
 rectocephala, sombati (19), spinicornis, tenuipes, terelamine, tomiokaensis.
HAUSTORIOPSIS brevispinis, latipes
Lepechinella grimi, helgii, madagascarensis, skarphe dini
LEPECHINELLOIDES kariii
LEPECHINELLOPSIS brevicaudata, inaequicaudata
Paradexamine bisetigera, excavata, gigas, micronesica, rewa, setigera
Paralepechinella longicornis
Polycheria amakusacensis, (atolli) orientalis
SEBADEXIUS neocaledoniensis

Didymocheliidae

Didymochelia edwardi

Dogielinotidae

DOGIELINOIDES golikovi
EOHAUSTORIOIDES
Haustorioides gurjanovae, indivisus, koreanus, latipalpus, magnus, nesogenes
PROBOSCINOTUS

Eophliantidae

Bircenna dronga

Eusiridae s.l.

ABDIA
Apherusa vexatrix
Atylopsis fragilis, procerus
Bathyschraderia fragilis
CALLIOPIURUS excellens
Cleonardo brevipes
Eusiroides aberrantis, dentimerus, (monoculoides) japonicus, yucatanensis
Eusirus crosnieri, latirostris, propeperdentatus
DAUTZENBERGIA
Gondogeneia dentata (19), patagonica (19), thurstoni
Halirages caecus
MANEROGENEIA
MEMBRILOPUS
NASAGENEIA yucatanensis
Oradarea ? scissicaudata
Paramoera hanumarai (19), incognita, stephenseni
Pontogeneia opata, stocki (19)
RELICTOMOERA
Rhachotropis arii, gislui, gloriosae, schellenbergi, thordisae, thorkelli
STERNOMOERA
Tethygeneia cavatelson
WHANGARUSA

Exoedicerotidae

METOEDICEROPSIS dadoensis
Patuki roperi
VADOSIAPUS copacabanus
WARREYUS

'gammaroids'

*ABLUDOGAMMARUS**Accubogammarus* (algor) jalzici*BAKU**Carinurus* amentatus, bazikalovae, bifrons*CEPHALOGAMMARUS**Chaetogammarus* oliviiiformis*CONDICIOGAMMARUS**Dikerogammarus* gruberi (19)*Echinogammarus* antalyae, cyrtus, dactylus, pseudoaquilifer, pungentioides, valedictus (19)*Gammarus* belli, caparti, chimkenti, desperatus, dorsosetosus (19), galgosensis, (songirdaki) hissari, hongyuanensis, hoonsooi, inopinatus (19), (sobaegensis) kimi, lasaensis, ledoyeri, leopoliensis, longipedis, lychnidensis, (sobaegensis) marginalis, miae (19), odaensis, odettae (19), orinos, oronticus, pageti (19), parechiniformis, plumipes (19), pretzmanni (19), pseudanatoliensis, salemaai, shanxiensis, sketi(19), solidus, songirdaki, soyoensis, stupendus, vignai, zeongogensis.*JUBEOGAMMARUS**KUZMELINA**LANCEOGAMMARUS**LAUROGAMMARUS**LUSIGAMMARUS**PALICARINUS**PALLASIOLA**PSEUDACANTHUS**RELICTACANTHUS**Rhipidogammarus* nivariae, rheophilus (19), triumvir, variicauda*Sarothrogammarus* contiguus*TADZHIKISTANIA**TURCOGAMMARUS**TYRRHENOGAMMARUS* (19) sardous (19)*YOGMELINA* limana

incertae sedis

Eoniphargus glandulatus (19)*GAMMAROPISA* arganoi*SENSORATOR* valentiensis

Gammaroporeiidae

GAMMAROPOREIA

Hadzia-Weckelia group

*AFROCRANGONYX**ALLOTEXIWECKELIA* hirsuta*APOWECKELIA* serrata*BAHADZIA* latipalpus, obliqua, setimana, stocki, williamsi*CRANGOWECKELIA* mixta, spinicauda*Dulzura* gal, lobata (19), paucispinosa*FIHA* schminkei*Hadzia* (fragilis) drinensis, pachypoda, (fragilis), stocki (19)*HOLSINGERIUS**Liagoceradocus* acutus, dentiferus, lobiferus (19), unciferus (19)*LONGIPODACRANGONYX**Metacrangonyx* aroundanensis (19), delamarei (19)

gineti, goulminensis (19), ruffoi (19), sinaicus

Metahadzia adriatica, helladis, uncispina*Metaniphargus* anchihalinus, bullipes, chaetodactylus, craterensis, crenatus, haitianus, hyporheicus, juberthiei, longidactylus, ortali, plumicauda, sabulonis (19), spinicauda, venezolanus*PACHYPODACRANGONYX* maroccanus*PARAMEXIWECKELIA**PARHADZIA* sbordonii*PHREATOMELITA* paceae*PINTOWECKELIA* grandis*PYGOCRANGONYX* repens*QUADRUS* vagabundus

RADOWECKELIA brevicauda
SRIHA
TEXIWECKELIA insolita, samacos
TEXIWECKELIOPSIS
THALASSOSTYGIUS (19) exiguus (19)
TULUWECKELLA (19) cernua (19)
ZHADIA subantarctica
ZOMBIWECKELIA parvipalpus

Haustoriidae

Acanthohaustorius bousfieldi, pansus, similis, uncinus
Eohaustorius longidactylus (19), setulosus (19), spinigerus (19), stocki (19), subulicola, tandecensis
Haustorius jayneae (19)
Lepidactylis triarticulatus
Parahaustorius obliquus
Protohaustorius bousfieldi

Hyalellidae

Hyalella paramoensis, squamosa (19)

Hyalidae

Hyalé barbicornis, bidentata, bisaeta (19), canalina, corallinacola, darwini, didendactyla, (galateae)
 distorta, gopalsawmyi, guasave, inermis, ishigakiensis, punctata, punila, uragensis, yaqui, zuague
Lelehua malevua
Parallorchestes asiaticus (19)
Parhyale basrensis, explorator, multispinosa

Ipanemidae

IPANEMA talpa

Iphimediidae s.l.

Acanthonotozoma dunbari, gurjanovae, magnum, sinuatum
Acanthonotozomella barnardi
ACANTHONOTOZOMOPSIS pushkini
Amathillopsis comorensis, septemdentata
AMATIGUAKIUS (19) forsberghii (19)
ANISOIPHIMEDIA
AUSTROREGIA
Coboldus laetifucatus (19)
CURIDIA debrogania, magellanica (19)
Cypsiphimedia edgari, mala
Echiniphimedia barnardi, gabrielae, waegelei
Epimeria bispinosa, extensa, obtusa, oxicarinata (19), pulchra (19), rimicarinata, rubriques (19), truncata
Gnathiphimedia urodentata
Iphimedia brachygnatha, gibbula, imparilabia, magellanica, quasimodus, serratipes, vicina, warraina (19), xesta (19), zora (19)
Iphimediella acuticoxa, discoveryi, georgei, paracuticoxa
MERALDIA
Ochlesis carinatus
OCHLESODIUS spinicornis
Odius antarcticus
Parapanoploea recessa
Parepimeria minor
Pariphimedia incisa
POSTODIUS imperfectus
STEGOPANOPLOEA

Laphystiopsidae

Prolaphystiopsis latirostris

Leucothoidae

Leucothoe bidens, campi, ctenochasma, gavialis, laticoxa, (richiardi) macrodonta, nagatai, neptunea, orkneyi, procera, safiac (19), squalidens.

Liljeborgiidae

Idunella bowenae, nagatai, sketi

ISIPINGUS

Liljeborgia bousfieldi, dubia, enigmatica, gloriosae, hwanghaensis (19), mozambica, petrae (19), pseudomacronyx

Listriella bahia, carinata, dentipalma, mollis, orientalis, quintana, spinifera, titinga.

SEXTONIA (revived)**Lysianassoidea s.l.**

ACHERONIA pegasus

Acidostoma sarsi

Acontistoma tuberculata

Ambasiopsis brevipes

Anonyx attenuatus, barrowensis, beringi, dalli, eousides (19), grebnitzkii (19), gurjanovae, hayashii, hurleyi, lebedi, orientalis, pareous (19), petersoni, pseudoeous (19), schefferi, shoemakeri, simplex, stappersi, stebbingi, stegnegeri

APOTECTONIA (19) heterostegos (19)

Aristias nonspinus, stenopodus

Aroui hamatopodus

Bathycallisoma armata

BONASSA (19)

BRUUNOSA

CAECONYX (19)

CEDROSELLA

Cheirimedon (macrocarpa) americana (19), solidus

CICADOSA

CONCARNES (19)

CONICOSTOMA karta

COXIMEDON (19)

Cyphocaris cornuta, geyserensis

DARTENASSA (19)

DIATECTONIA (19) typhodes (19)

DISSIMINASSA (19)

DOUNIALELLA longichelata

DRUMMONDIA corinellae, parviramus

EKELOFIA

Ensayara dentarius, entrichoma (19), iara, jumane, microphthalma

ERIKUS dahli

Euonyx mytilus (19)

FALCANASSA (19)

FALKLANDIA

Figorella tasmanica

GALATHELLA

Glycerina teretis

GRONELLA (19)

Hippomedon benthedii, columbianus, hake, mamene, matikuku, rodericki, whereo

? *Hippomedon* adentatus, brevicaudatus, denturus

Hirondellea glutonis (19), guyoti (19)

Ichnopus pseudoserrius

KAKANUI punui

Kerguelenia antiborealis, macropoda, microphthalma

Lepidepcrella pamanzi

Lepidepcreum carinatum, infissum, madagascarensis, rometacarinatum

LEPIDURISTES

LUCAYARINA catacumba

Lysianassa caesarea, insperata, kerakae (19), (cinghalensis) latipes

Lysianopsis tieke

MACRONASSA (19)

MARTENSIA (19)

Normanion chevreuxi, ruffoi
Ocosingo fenwicki, kussakini
Orchomene aahu, breviceps, hiata, kaikai (19), kryptopinguides, limodes, liomargo, orchospina,
 scotianensis, stocki (19), tomiokaensis
Orchomenella guillei
ORCHOMENYX
Pachychelium nichollsi, schellenbergi
Pachynus denticulatus, pugilator
PARACHEVREUXIELLA lobata
Parambasia nui
Parawaldeckia angusta, dabita, hirsuta, karaka, lowryi, mua, parata, pulchra, suzae, vesca
PARDIA
PARSCHISTURELLA simplex
Psammonyx longimerus, terranovae
PSEUDAMARYLLIS nonconstricta
PSEUDOCYPHOCARIS coxalis, gosema (19), lobata (19)
RIMAKOROGA
Schisturella parachelata
SCOPOLOSTOMA
Scopelocheirus polymedus
SEPTCARNES (19)
SHEARDELLA kapala, tangaroa
SHOEMAKERELLA lowryi (19)
Socarnes allectus
Socarnoides indentata
STEPHONYX
Stomacontion hurleyi, pungapunga
TECTOVALOPSIS (19) diabolus (19), fusilus (19), regelatus (19), wegneri (19)
Thrombasia incerta
Tmetonyx nardonis, palpiserrata
TRANSTECTONIA (19) torrentis (19)
Trischizostoma denticulatum
Tryphosella longidactyla, serans, simillima
Uristes ?latipes
Valettia hystrix
VALETTIETTA cavernicola, gracilis, lobata, punctata
VENTIELLA (19) sulfuris (19)
Waldeckia elephas, scrupulosa
WANDIN (19) griffini (19)
WECOMEDON similis

Maxillipiidae

MAXILLIPIDES laticarpus
Maxillipius commensalis

'melitids'

ABLUDOMELITA
ALLOMELITA
ALSACOMELITA semipalmata
ANCHIALELLA vulcanella
CARINOMELITA (19) janstocki (19)
CEPHALOPISELLA
CONFODIOPISA
DULICHIELLA (revived)
DUMOSUS atari
Eriopisa inaquicaudata, incisa, melitaformis
Eriopisella chierегоi, spinosa
FLAGITOPISA
GINIPHARGUS
HOHO hirtipalma
IMPERTIOPISA
JOSEPHOSELLA andamana, hamata
MADAPISELLA

MALERIOPA

Melita alluaudi, bingoensis, dulcicola (19), elongata, ? excavata, hoshinoi (19), intermedia, leiotelson, longidactyla, longisetosa, mikulitschae, myersi, nagatai, persona, pilopropoda, plumulosa, quadridentata (19), setiflagella, sextachya, simplex, stocki, unamocna

NAINALOA

Netamelita barnardi, brochi(19), tabaci (19)

NIPPOPISELLA

Psammogammarus caesicolus, initialis, longidactylus, scopulorum, stocki (19)

PSAMMOMELITA uncinata**ROROPISA**

SPATHOPUS looensis

SPINIFEROPISELLA

TAGUA aporema

TEGANO**TUNISOPISA****VICITOPISA**

VICTORIOPISA atlantica, (chilkensis) griffithsi, papice

Mesogammaridae

PARAMESOGAMMARUS americanus

Niphargidae (incl. *Pseudoniphargus*)

FORONIPHARGUS pori

Haploginglymus bergae(19), lobatus, mateusi

NIPHARGOBATES lefkodemonaki (19), orophobata

Niphargus (strouhali) alpinus (19), arbiter, arcanus, armatus, aulicus (19), (tamaninii) barbatus, bodoni, caelestis, carcerarius, casimiriensis, (transitivus) dissonus, farroi, hercegovinensis, ictus, itus, (rejici) jadranka, jalzici, jugoslavicus, lattingerae, (steueri) liburnicus, longiflagellum, lunaris, messanoi (19), parapupetta, pectencoronatus (19), pescei, poianoi, pseudocaspicus, renei, (spoeckeri) sibirianus, (galvagni) similis (19), (pasquini) socialis, spinulifemur, tamaninii, timavi, vjeternicensis.

PARAPSEUDONIPHARGUS baetis

Pseudoniphargus affinis, associatus (19), branchiatus, brevipedunculatus, burgensis, callaicus, candelariae (19), cazorlae, cupicola, eborarius, elongatus, fontinalis, fragilis, gibraltarius, gomerae, gorbeanus, gracilis, granadensis, grandis, guernicae, illustris, incantatus, inconditus (19), (africanus) italicus, jereanus, latipes, longicarpus, longicauda, longispinum, macrotelsonis, margalefi, maroccanus, mateusarum, mercadoli, montanus, multidens, nevadensis, porticola, salinus, semielongatus, sodalis (19), sorbasiensis, spiniferus, stocki, unisexualis, unispinosus, vasconiensis, vomeratus

Oedicerotidae

ABOROLOBATEA paracheliformis

Aceroides goesi

Arrhis ? mediterranea

CHITONOMANDIBULUM emargicoxae

CORNUDILLA (19)

DOOWIA cooma, dexterac

MACHAIRONYX muelleri

Monoculodes acutipes, dentimanus, koreanus, muwoni

Oedicerina ? megalopoda

Oediceroides pilosus

Perioculodes brevicarpus, cerasinus, longirostratus, (aequimanus) mozambicus, pinguis, seohae

Synchelidium carinorostum, (americanum) latipalpus, lenorostratum, micropleon, rostriopiculum, trioostegitum

Pagetinidae

Pagatina reducta

Paracalliopiidae

INDOCALLIOPE

KATOCALLIOPE kutyeri

Paracalliope mapela

Pardaliscidae

ANTRONICIPPE serrata
Arculfia (trago) mediterranea
Halice sublittoralis
Pardalisca brachydactyla, mediterranea
Pardaliscella inermis
SPELAEONICIPPE provo

Phliantidae

Heterophilias galapagoanus, seticoxa
Palinnotus (thompsoni) japonicus, lepas

Phoxocephalidae**BASUTO**

Birubius apari, babaneekus, booleus, cartoo, chintoo, eake, eleebanus, gallangus, gambodeni, gelarus, jirrandus, kabbulinus, karobrani, kinkus, kokorus, kycemus, lorus, lowannus, maamus, maldus, mayamayi, millinus, muldarpus, munggai, nammulduus, narus, quearus, taldeus, thalmus, ularitus, wirakus, wulgaru, yandus, yorlunus.

BOORANUS tikeri, wangoorus, weemus

BROLGUS koongarrus, mahmak, tavelus

CEPHALOPHOXOIDES**CEPHALOPHOXUS**

COCOARPINIA iliffei

CUNMURRA itickerus

DIOGODIAS

ELPEDDO kaikai

EOBROLGUS chumashi

EUSYROPHOXUS**EYAKIA****FERIHARPINIA**

FOXIPHALUS apache, golfensis, secasius, xiximeus

FUEGIPHOXUS abjectus

GANBA pellati

GRANDIFOXUS acanthinus, aciculata, bangpoensis, cuspis, malipoensis, vulpinus

Harpinia agna, ala, clivicola, ferentaria, panini (19), zavodniki

Harpiniopsis bandelei, capensis, pseudonadania

HOPIPHOXUS

JAPARA papporus

JERILDARIA joubiphoxus

Joubinella indentata

KONDOLEUS tekin

KOTLA batturi

KULGAPHOXUS borralus, cadgeeus

KURITUS nacoemus

LEONGATHUS nootoo

Limnoporeia kalduke, maranowe, ungamale, wakkine, woorake, yarrague

Mandibulophoxus hongae, mai

MATONG matong

MESOPHOXUS laperusi

Metaphoxoides angustimanus, zavorus

Metaphoxus gruneri, mintus, tuckatuck, tulcarensis, yaranellus

Metharpinia coronadoi, oripacifica

PALABRIAPHOXUS**PARAJOUBINELLA**

PARAMESOPHOXUS rakunae

PARAMETAPHOXUS

Paraphoxus lincolni, tomiokaensis

Parharpinia warte

Phoxocephalus aquosus, burleus, keppeli, kukathus, proluxus, rupullus

PHOXORGIA

Proharpinia setifera

Pseudharpinia calcariaria

RHEPOXYNIUS homocuspидatus, hudsoni, menziesi

RIKKARUS lea
 RINGARINGA (19)
 SYNPHOXUS novaezealandicus
 TICKALERUS birubi
 TIPIMEGUS dinjerrus, kalkro, kangulun
 TORRIDOHARPINIA
 ULDANAMIA pillare
 VASCO
 WAIPIROPHOXUS
 WILDUS mullokus, parathambaroo, thambaroo
 YAMMACOONA kunarella
 YAN errichus, tiendi

Phoxocephalopsidae

EOPHOXOCEPHALOPSIS rhachianensis
 Phoxocephalopsis gallardoi, mehuinensis
 PUELCHE orenzani

Platyischnopidae

EUDEVENOPUS honduranus
 Platyischnopus mam
 SKAPTOPUS brychius
 TIBURONELLA
 TITAKUNARA katoa
 TOMITUKA doowi
 YURROKUS cooroo

Pleustidae

DACTYLOPLEUSTES obsolescens
 Parapleustes dilatatus, filialis, longimanus, tricuspis
 Pleustoides mediterraneus
 Pleusymtes brachypalma, (quadrangularis) brevis, kamui, margulisae (19), mucidus
 TEPIDOPLEUSTES

Plioplateiidae

Plioplateia nodiformis

Podoceridae

Dulichia antarctica
 Dulichiopsis brevidactylus
 Laetmatophilus dabberi
 PARADYOPEDOS (19) antarcticus (19)
 PODOBOTHRUS bermudensis
 Podocerus (danae) armatus, crenulatus, gloriosae, hoonsooi (19), (talegus) levuensis, madagascarensis,
 palinuroides, (walkeri) pedonculatus, tulearensis, ulreungensis (19)
 PSEUDODULICHIA (19)
 STYLOXENODICE

Pontoporeiidae

Bathyporeia pseudopelagica, sardoa, sophiae, sunnivae
 DIPOREIA
 MONOPOREIA

Priscomilitaridae

PRISCOMILITARIS tenuis

Salentinellidae

Salentinella carracensis, cazemierae, formenterae, longicaudata, (angelieri) var. longispina, meijersae,
 seviliensis

Sebidae

RELICTOSEBORGIA relicta
Seba chiltoni, gloriosae, tropica
Seborgia schieckei

Stegocephalidae

Andaniella integripes
Andaniexis tridentata
Euandania nonhiata
GLORANDANIOTIS fissicaudata
Parandaniexis dewitti, inermis
Phippsiella pseudophippsia
STEGOSOLADIUS

Stenothoidae

Antatelson tuberculatum
AUROMETOPA
HARDAMETOPA (19)
KNYSMETOPA
Mesoproboloides cruxlorraina
Metopa gurjanovae (19), shoemakeri (19)
Metopella bousfieldi (19)
Metopelloides erythrophthalmus
Metopoides andresi, angustus, antarcticus, foliodactylus, lanceolatus, latus, leptomanus, macromanus, serratus
Parametopa crassicornis, edentata
Parametopella texensis
Proboloides anophthalma, armatus, bellansantiniac
Prometopa dorsoundata
Raumahara judithae
Stenothoe elachistoides, inermis, irakiensis, kaia
Stenula alexanderi (19)
THAUMATELSONELLA (19) kingelepha (19)
TOROMETOPA
VONIMETOPA
ZAIKOMETOPA

Stilipedidae

Alexandrella inermis, subchelata
ASTYROIDES
Bathypanoploea schellenbergi

Synopiidae

Garosyrrhoë luquei
Metatiron caecus
Synopia rotunda, triangula
Syrrhoites barnardi, capricornia, cornuta
TELSOSYNOPIA
Tiron bellairisi, galeatus, ovatibasis, triocellatus

Talitridae

AGILESTIA hylaea
AMERICORCHESTIA (19) barbarae (19), heardi (19), salomani (19)
Austrotroides crenatus, occidentalis, pectinalis
CARIBOTROIDES chiapensis (19), jamaicensis, newtoni (19), pecki (19), tuxtliensis (19)
CERRORCHESTIA (19) hyloraina (19)
CHELORCHESTIA
CHILTONORCHESTIA
CHROESTIA lota
EORCHESTIA
FLORESORCHESTIA guadalupensis (19)
HAWAIORCHESTIA
MACARORCHESTIA martini

MEGALORCHESTIA dexterae
MICRORCHESTIA
Orchestia gomeri (19), guancha, stocki (19)
PACIFORCHESTIA
PALMORCHESTIA epigaea (19), hypogaea
PLATORCHESTIA chathamensis, munmui
PROTAUSTROTROIDES victoriae
PROTORCHESTIA
PSEUDORCHESTIA mexicana
Talitrus angulosus, vulgaris
Talorchestia palawanensis, pelecyaniformis
TETHORCHESTIA antillensis, karukarae (19)
TRANSORCHESTIA
TRASKORCHESTIA
Trinorchestia longiramus
UHLORCHESTIA spartinophila

Temnophliantidae

HYSTRIPHLIAS

Tulearidae

TULEARUS thomassini

Urohaustoriidae

DIRIMUS tarlitus
GHEEGERUS garbais
HUARPE escofeti
NARUNIUS tallerkus
TOTTUNGUS tungus
TULDARUS barinius, cangellus
Urohaustorius gunni, merkanus, parnggius, pentinus, perkeus, pulcus, urungari, wingaro, yurus
WARRAGAIA rintouli

Urothoidae

Carangolia cornuta
PSEUDUROTHOE benthedii
Urothoe (gelasina) ambigua, intermedia, (grimaldii) japonica, marionis
Urothoides kurrawa, mabing, makoo, mammarta, odernae, tondea, waminoa

Vicmusiidae

VICMUSIA duplocoxa

Vitjazianidae

Vemana geysereensis

Zobrachoidae

BUMERALIUS bucholicus
CHONO angustiarum
PRANTINUS talanggi
TONOCOTE introflexidus, magellani

Ingolfiellidea

HANSENIELLA
Ingolfiella australiana, bassiana, canariensis (19), cottarellii, dracospiritis (19), gobabis (19), grandispina, margaritae, quadridentata
STYGOBARNARDIA caprellinoides

Caprellidea*Aciconula* acanthosoma*Caprella* (acutifrons) annobonensis, brachiata, branchella, concinna (19), dissona, equina, generosa, glabra (19), iniqua, kominatoensis (19), liliata, manneringi, minima, minuscula, scitula, temperativa*Caprellina* bispinosa (19)*Caprogammarus* micropleopodus*Cercops* minutus*Deutella* schieckei*Fallotritella* polynesica (19)*Heterocaprella* krishnaensis*LIRIOPE* lunaticus*Mayerella* acanthopoda*Paracaprella* insolita*PARADICAPRELLA* (19) brucei*PEDUNCULOCAPRELLA* antennata*Postocaprella* marcida*PREMOHEMIAEGINA* sola*PRETRITELLA* divina*PROTOTRITELLA* ishigakensis*Pseudocercops* pubescens*QUADRISEGMENTUM***Cyamidae***Cyamus* antarcticensis, orubraedon (19)*Platycyamus* flaviscutatus (19)*Scutocyamus* antipodensis*Syncyamus* aequus**Hyperidea***Amphithyrus* muratus*Hyperia* curticephala*LAXOHYPERIA* vespuliformis*Lycaea* lilia*Parapronoe* elongata*Phronima* bowmani (19), dunbari (19)*Primno* abyssalis, evansi*Scina* curvidactyla (19), exospina (19), hawaiiensis, hurleyi (19), parasetigera (19).

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